

## ANALYTICAL REPORT

Job Number: 240-44867-1

Job Description: EMD

For:

TRC Environmental Corp-Payne Firm  
11231 Cornell Park Drive  
Cincinnati, OH 45242  
Attention: Curt Kugler



Approved for release.  
Patrick J O'Meara  
Manager of Project Management  
12/3/2014 4:55 PM

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12/03/2014

cc: Steve Rolfes  
Jim Wasserbauer

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## CASE NARRATIVE

**Client: TRC Environmental Corp-Payne Firm**

**Project: EMD**

**Report Number: 240-44867-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### **RECEIPT**

The samples were received on 11/26/2014 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

### **VOLATILE ORGANIC COMPOUNDS (GCMS)**

Samples EFFLUENT/112514 (240-44867-1) and TB01/112514 (240-44867-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/02/2014 and 12/03/2014.

Methylene Chloride was detected in method blank MB 240-159290/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) for batch 159270 recovered outside control limits for Acrolein and Vinyl acetate. These have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Sample EFFLUENT/112514 (240-44867-1) had a reanalysis that had different results than the original analysis. Both runs are reported. Three vials were provided. The initial reported run was analyzed from the second vial undiluted based upon screen results from the first vial that indicated undiluted analysis was indicated. Two compounds (acetone and 2-butanone) in this run were found to be over calibration range, so the third vial was run at a dilution to bring the over range compounds within calibration range. This dilution run matched the original screen results and many compounds were ND with a dilution, so this run has been discarded. The original screen vial (now with headspace) was rerun undiluted and reported as a second analysis (RA). Except for the two compounds acetone and 2-butanone, results between the two vials compare favorably, indicating possible contamination in one vial for the two non-matching compounds.

The reanalysis (RA) of following volatile sample was analyzed with significant headspace (a bubble greater than 6 mm in diameter) in the sample vial: EFFLUENT/112514 (240-44867-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 Analysis Batch Number: 159122Lab Sample ID: 240-44867-1 Client Sample ID: EFFLUENT/112514Date Analyzed: 12/02/14 19:55 Lab File ID: UXR7735.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone	4.79	Poor Chromatography	quayler	12/03/14 13:15

## SAMPLE SUMMARY

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
240-44867-1	EFFLUENT/112514	Water	11/25/2014 1025	11/26/2014 1020
240-44867-2TB	TB01/112514	Water	11/25/2014 0000	11/26/2014 1020

## EXECUTIVE SUMMARY - Detections

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>240-44867-1</b>	<b>EFFLUENT/112514</b>					
Acetone		960	E	10	ug/L	8260B
Benzene		9.6		1.0	ug/L	8260B
Bromoform		1.4		1.0	ug/L	8260B
2-Butanone		120	E	10	ug/L	8260B
Carbon tetrachloride		0.48	J	1.0	ug/L	8260B
Chloroform		9.4		1.0	ug/L	8260B
1,1-Dichloroethane		24		1.0	ug/L	8260B
1,2-Dichloroethane		11		1.0	ug/L	8260B
1,4-Dioxane		160		50	ug/L	8260B
Ethylbenzene		0.33	J	1.0	ug/L	8260B
1,1,2,2-Tetrachloroethane		5.6		1.0	ug/L	8260B
Tetrachloroethene		0.37	J	1.0	ug/L	8260B
1,1,1-Trichloroethane		3.4		1.0	ug/L	8260B
1,1,2-Trichloroethane		1.7		1.0	ug/L	8260B
Trichloroethene		0.20	J	1.0	ug/L	8260B

## METHOD SUMMARY

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B	
Purge and Trap	TAL CAN		SW846 5030B

### Lab References:

TAL CAN = TestAmerica Canton

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**METHOD / ANALYST SUMMARY**

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B	Quayle, Rick	RJQ

## Analytical Data

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Client Sample ID:** EFFLUENT/112514

Lab Sample ID: 240-44867-1

Date Sampled: 11/25/2014 1025

Client Matrix: Water

Date Received: 11/26/2014 1020

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-159122	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR7735.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/02/2014 1955			Final Weight/Volume:	5 mL
Prep Date:	12/02/2014 1955				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	960	E	3.4	10
Acetonitrile	ND		9.2	20
Acrolein	ND		1.4	20
Acrylonitrile	ND		6.3	20
Benzene	9.6		0.24	1.0
Bromodichloromethane	ND		0.15	1.0
Bromoform	1.4		0.56	1.0
Bromomethane	ND		0.63	1.0
2-Butanone	120	E	4.1	10
Carbon disulfide	ND		0.28	1.0
Carbon tetrachloride	0.48	J	0.17	1.0
Chlorobenzene	ND		0.19	1.0
Chloroethane	ND		0.33	1.0
Chloroform	9.4		0.21	1.0
Chloromethane	ND		0.44	1.0
Chloroprene	ND		0.26	2.0
3-Chloro-1-propene	ND		0.84	2.0
cis-1,2-Dichloroethene	ND		0.20	1.0
cis-1,3-Dichloropropene	ND		0.46	1.0
Dibromochloromethane	ND		0.43	1.0
1,2-Dibromo-3-Chloropropane	ND		0.82	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	ND		0.50	1.0
1,1-Dichloroethane	24		0.26	1.0
1,2-Dichloroethane	11		0.20	1.0
1,1-Dichloroethene	ND		0.45	1.0
1,2-Dichloroethene, Total	ND		0.20	2.0
1,2-Dichloropropane	ND		0.22	1.0
1,4-Dioxane	160		40	50
Ethylbenzene	0.33	J	0.23	1.0
Ethylene Dibromide	ND		0.19	1.0
Ethyl methacrylate	ND		0.44	1.0
2-Hexanone	ND		3.9	10
Iodomethane	ND		0.42	1.0
Isobutanol	ND		12	50
Methacrylonitrile	ND		0.70	2.0
Methylene Chloride	ND		0.28	1.0
Methyl methacrylate	ND		0.99	2.0
4-Methyl-2-pentanone (MIBK)	ND		3.6	10
Propionitrile	ND		0.95	4.0
Styrene	ND		0.45	1.0
1,1,1,2-Tetrachloroethane	ND		0.28	1.0
1,1,2,2-Tetrachloroethane	5.6		0.22	1.0
Tetrachloroethene	0.37	J	0.20	1.0
Toluene	ND		0.22	1.0
trans-1,4-Dichloro-2-butene	ND		0.31	1.0

**Analytical Data**

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Client Sample ID: EFFLUENT/112514**

Lab Sample ID: 240-44867-1  
 Client Matrix: Water

Date Sampled: 11/25/2014 1025  
 Date Received: 11/26/2014 1020

**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method: 8260B	Analysis Batch: 240-159122	Instrument ID: A3UX17
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: UXR7735.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 12/02/2014 1955		Final Weight/Volume: 5 mL
Prep Date: 12/02/2014 1955		

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,2-Dichloroethene	ND		0.26	1.0
trans-1,3-Dichloropropene	ND		0.56	1.0
1,1,1-Trichloroethane	3.4		0.22	1.0
1,1,2-Trichloroethane	1.7		0.17	1.0
Trichloroethene	0.20	J	0.15	1.0
Trichlorofluoromethane	ND		0.49	1.0
1,2,3-Trichloropropane	ND		0.30	1.0
Vinyl acetate	ND		0.41	2.0
Vinyl chloride	ND		0.29	1.0
Xylenes, Total	ND		0.43	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		66 - 120
Dibromofluoromethane (Surr)	105		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	99		74 - 120

**Analytical Data**

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Client Sample ID: EFFLUENT/112514**

Lab Sample ID: 240-44867-1

Date Sampled: 11/25/2014 1025

Client Matrix: Water

Date Received: 11/26/2014 1020

**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	240-159290	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM0025.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 1258	Run Type:	RA	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 1258				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	31		3.4	10
Acetonitrile	ND		9.2	20
Acrolein	ND	*	1.4	20
Acrylonitrile	ND		6.3	20
Benzene	9.1		0.24	1.0
Bromodichloromethane	ND		0.15	1.0
Bromoform	1.4		0.56	1.0
Bromomethane	ND		0.63	1.0
2-Butanone	ND		4.1	10
Carbon disulfide	ND		0.28	1.0
Carbon tetrachloride	0.47	J	0.17	1.0
Chlorobenzene	ND		0.19	1.0
Chloroethane	ND		0.33	1.0
Chloroform	10		0.21	1.0
Chloromethane	ND		0.44	1.0
Chloroprene	ND		0.26	2.0
3-Chloro-1-propene	ND		0.84	2.0
cis-1,2-Dichloroethene	0.60	J	0.20	1.0
cis-1,3-Dichloropropene	ND		0.46	1.0
Dibromochloromethane	ND		0.43	1.0
1,2-Dibromo-3-Chloropropane	ND		0.82	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	ND		0.50	1.0
1,1-Dichloroethane	28		0.26	1.0
1,2-Dichloroethane	13		0.20	1.0
1,1-Dichloroethene	ND		0.45	1.0
1,2-Dichloroethene, Total	0.60	J	0.20	2.0
1,2-Dichloropropane	ND		0.22	1.0
1,4-Dioxane	190		40	50
Ethylbenzene	0.28	J	0.23	1.0
Ethylene Dibromide	ND		0.19	1.0
Ethyl methacrylate	ND		0.44	1.0
2-Hexanone	ND		3.9	10
Iodomethane	ND		0.42	1.0
Isobutanol	ND		12	50
Methacrylonitrile	ND		0.70	2.0
Methylene Chloride	ND		0.28	1.0
Methyl methacrylate	ND		0.99	2.0
4-Methyl-2-pentanone (MIBK)	ND		3.6	10
Propionitrile	ND		0.95	4.0
Styrene	ND		0.45	1.0
1,1,1,2-Tetrachloroethane	ND		0.28	1.0
1,1,2,2-Tetrachloroethane	5.1		0.22	1.0
Tetrachloroethene	0.32	J	0.20	1.0
Toluene	ND		0.22	1.0
trans-1,4-Dichloro-2-butene	ND		0.31	1.0

Analytical Data

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

Client Sample ID: EFFLUENT/112514

Lab Sample ID: 240-44867-1

Date Sampled: 11/25/2014 1025

Client Matrix: Water

Date Received: 11/26/2014 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B      Analysis Batch: 240-159290      Instrument ID: A3UX16  
Prep Method: 5030B      Prep Batch: N/A      Lab File ID: UXM0025.D  
Dilution: 1.0      Initial Weight/Volume: 5 mL  
Analysis Date: 12/03/2014 1258      Run Type: RA      Final Weight/Volume: 5 mL  
Prep Date: 12/03/2014 1258

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,2-Dichloroethene	ND		0.26	1.0
trans-1,3-Dichloropropene	ND		0.56	1.0
1,1,1-Trichloroethane	3.7		0.22	1.0
1,1,2-Trichloroethane	1.8		0.17	1.0
Trichloroethene	0.24	J	0.15	1.0
Trichlorofluoromethane	ND		0.49	1.0
1,2,3-Trichloropropane	ND		0.30	1.0
Vinyl acetate	ND	*	0.41	2.0
Vinyl chloride	ND		0.29	1.0
Xylenes, Total	ND		0.43	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		66 - 120
Dibromofluoromethane (Surr)	102		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	99		74 - 120

## Analytical Data

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Client Sample ID:** TB01/112514

Lab Sample ID: 240-44867-2TB

Date Sampled: 11/25/2014 0000

Client Matrix: Water

Date Received: 11/26/2014 1020

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-159290	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM0023.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 1156			Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 1156				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		3.4	10
Acetonitrile	ND		9.2	20
Acrolein	ND	*	1.4	20
Acrylonitrile	ND		6.3	20
Benzene	ND		0.24	1.0
Bromodichloromethane	ND		0.15	1.0
Bromoform	ND		0.56	1.0
Bromomethane	ND		0.63	1.0
2-Butanone	ND		4.1	10
Carbon disulfide	ND		0.28	1.0
Carbon tetrachloride	ND		0.17	1.0
Chlorobenzene	ND		0.19	1.0
Chloroethane	ND		0.33	1.0
Chloroform	ND		0.21	1.0
Chloromethane	ND		0.44	1.0
Chloroprene	ND		0.26	2.0
3-Chloro-1-propene	ND		0.84	2.0
cis-1,2-Dichloroethene	ND		0.20	1.0
cis-1,3-Dichloropropene	ND		0.46	1.0
Dibromochloromethane	ND		0.43	1.0
1,2-Dibromo-3-Chloropropane	ND		0.82	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	ND		0.50	1.0
1,1-Dichloroethane	ND		0.26	1.0
1,2-Dichloroethane	ND		0.20	1.0
1,1-Dichloroethene	ND		0.45	1.0
1,2-Dichloroethene, Total	ND		0.20	2.0
1,2-Dichloropropane	ND		0.22	1.0
1,4-Dioxane	ND		40	50
Ethylbenzene	ND		0.23	1.0
Ethylene Dibromide	ND		0.19	1.0
Ethyl methacrylate	ND		0.44	1.0
2-Hexanone	ND		3.9	10
Iodomethane	ND		0.42	1.0
Isobutanol	ND		12	50
Methacrylonitrile	ND		0.70	2.0
Methylene Chloride	ND		0.28	1.0
Methyl methacrylate	ND		0.99	2.0
4-Methyl-2-pentanone (MIBK)	ND		3.6	10
Propionitrile	ND		0.95	4.0
Styrene	ND		0.45	1.0
1,1,1,2-Tetrachloroethane	ND		0.28	1.0
1,1,2,2-Tetrachloroethane	ND		0.22	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.22	1.0
trans-1,4-Dichloro-2-butene	ND		0.31	1.0

**Analytical Data**

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Client Sample ID:** TB01/112514

Lab Sample ID: 240-44867-2TB

Date Sampled: 11/25/2014 0000

Client Matrix: Water

Date Received: 11/26/2014 1020

**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	240-159290	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM0023.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 1156			Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 1156				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,2-Dichloroethene	ND		0.26	1.0
trans-1,3-Dichloropropene	ND		0.56	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2-Trichloroethane	ND		0.17	1.0
Trichloroethene	ND		0.15	1.0
Trichlorofluoromethane	ND		0.49	1.0
1,2,3-Trichloropropane	ND		0.30	1.0
Vinyl acetate	ND	*	0.41	2.0
Vinyl chloride	ND		0.29	1.0
Xylenes, Total	ND		0.43	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		66 - 120
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	104		63 - 129
Toluene-d8 (Surr)	97		74 - 120

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Surrogate Recovery Report**

**8260B Volatile Organic Compounds (GC/MS)**

**Client Matrix: Water**

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-44867-1 RA	EFFLUENT/112514 RA	102	104	99	101
240-44867-1	EFFLUENT/112514	105	98	99	93
240-44867-2	TB01/112514	97	104	97	97
MB 240-159290/6		97	102	94	98
LCS 240-159290/4		101	102	101	103

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

## Quality Control Results

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Method Blank - Batch: 240-159290**

**Method: 8260B  
Preparation: 5030B**

Lab Sample ID: MB 240-159290/6  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 12/03/2014 1004  
 Prep Date: 12/03/2014 1004  
 Leach Date: N/A

Analysis Batch: 240-159290  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: A3UX16  
 Lab File ID: UXM0018.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	ND		3.4	10
Acetonitrile	ND		9.2	20
Acrolein	ND		1.4	20
Acrylonitrile	ND		6.3	20
Benzene	ND		0.24	1.0
Bromodichloromethane	ND		0.15	1.0
Bromoform	ND		0.56	1.0
Bromomethane	ND		0.63	1.0
2-Butanone	ND		4.1	10
Carbon disulfide	ND		0.28	1.0
Carbon tetrachloride	ND		0.17	1.0
Chlorobenzene	ND		0.19	1.0
Chloroethane	ND		0.33	1.0
Chloroform	ND		0.21	1.0
Chloromethane	ND		0.44	1.0
Chloroprene	ND		0.26	2.0
3-Chloro-1-propene	ND		0.84	2.0
cis-1,2-Dichloroethene	ND		0.20	1.0
cis-1,3-Dichloropropene	ND		0.46	1.0
Dibromochloromethane	ND		0.43	1.0
1,2-Dibromo-3-Chloropropane	ND		0.82	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	ND		0.50	1.0
1,1-Dichloroethane	ND		0.26	1.0
1,2-Dichloroethane	ND		0.20	1.0
1,1-Dichloroethene	ND		0.45	1.0
1,2-Dichloroethene, Total	ND		0.20	2.0
1,2-Dichloropropane	ND		0.22	1.0
1,4-Dioxane	ND		40	50
Ethylbenzene	ND		0.23	1.0
Ethylene Dibromide	ND		0.19	1.0
Ethyl methacrylate	ND		0.44	1.0
2-Hexanone	ND		3.9	10
Iodomethane	ND		0.42	1.0
Isobutanol	ND		12	50
Methacrylonitrile	ND		0.70	2.0
Methylene Chloride	0.369	J	0.28	1.0
Methyl methacrylate	ND		0.99	2.0
4-Methyl-2-pentanone (MIBK)	ND		3.6	10
Propionitrile	ND		0.95	4.0
Styrene	ND		0.45	1.0
1,1,1,2-Tetrachloroethane	ND		0.28	1.0
1,1,2,2-Tetrachloroethane	ND		0.22	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.22	1.0

**Quality Control Results**

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Method Blank - Batch: 240-159290**

**Method: 8260B  
Preparation: 5030B**

Lab Sample ID: MB 240-159290/6  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 12/03/2014 1004  
 Prep Date: 12/03/2014 1004  
 Leach Date: N/A

Analysis Batch: 240-159290  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: A3UX16  
 Lab File ID: UXM0018.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,4-Dichloro-2-butene	ND		0.31	1.0
trans-1,2-Dichloroethene	ND		0.26	1.0
trans-1,3-Dichloropropene	ND		0.56	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2-Trichloroethane	ND		0.17	1.0
Trichloroethene	ND		0.15	1.0
Trichlorofluoromethane	ND		0.49	1.0
1,2,3-Trichloropropane	ND		0.30	1.0
Vinyl acetate	ND		0.41	2.0
Vinyl chloride	ND		0.29	1.0
Xylenes, Total	ND		0.43	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	98	66 - 120
Dibromofluoromethane (Surr)	97	75 - 121
1,2-Dichloroethane-d4 (Surr)	102	63 - 129
Toluene-d8 (Surr)	94	74 - 120

## Quality Control Results

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Lab Control Sample - Batch: 240-159290**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID:	LCS 240-159290/4	Analysis Batch:	240-159290	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM0016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 0919	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 0919				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	18.1	91	43 - 136	
Acrolein	50.0	96.7	193	51 - 170	*
Acrylonitrile	100	105	105	66 - 132	
Benzene	10.0	10.4	104	80 - 120	
Bromodichloromethane	10.0	10.3	103	72 - 121	
Bromoform	10.0	9.61	96	40 - 131	
Bromomethane	10.0	9.10	91	11 - 185	
2-Butanone	20.0	18.7	94	60 - 126	
Carbon disulfide	10.0	10.2	102	62 - 142	
Carbon tetrachloride	10.0	10.7	107	66 - 128	
Chlorobenzene	10.0	10.0	100	80 - 120	
Chloroethane	10.0	9.36	94	25 - 153	
Chloroform	10.0	10.8	108	79 - 120	
Chloromethane	10.0	10.9	109	44 - 126	
3-Chloro-1-propene	10.0	9.17	92	40 - 160	
cis-1,2-Dichloroethene	10.0	10.5	105	80 - 120	
cis-1,3-Dichloropropene	10.0	10.4	104	61 - 120	
Dibromochloromethane	10.0	9.86	99	64 - 120	
1,2-Dibromo-3-Chloropropane	10.0	8.55	86	42 - 136	
Dibromomethane	10.0	10.3	103	80 - 120	
Dichlorodifluoromethane	10.0	8.18	82	19 - 129	
1,1-Dichloroethane	10.0	11.0	110	80 - 120	
1,2-Dichloroethane	10.0	11.1	111	71 - 127	
1,1-Dichloroethene	10.0	10.3	103	78 - 131	
1,2-Dichloroethene, Total	20.0	21.2	106	80 - 120	
1,2-Dichloropropane	10.0	10.7	107	80 - 120	
1,4-Dioxane	200	209	104	50 - 150	
Ethylbenzene	10.0	10.7	107	80 - 120	
Ethylene Dibromide	10.0	10.3	103	79 - 120	
Ethyl methacrylate	10.0	10.9	109	40 - 160	
2-Hexanone	20.0	21.0	105	55 - 133	
Iodomethane	10.0	11.3	113	72 - 141	
Isobutanol	250	261	104	40 - 160	
Methylene Chloride	10.0	10.8	108	66 - 131	
4-Methyl-2-pentanone (MIBK)	20.0	20.0	100	63 - 128	
m-Xylene & p-Xylene	10.0	10.5	105	80 - 120	
o-Xylene	10.0	10.6	106	80 - 120	
Styrene	10.0	10.2	102	79 - 120	
1,1,1,2-Tetrachloroethane	10.0	10.2	102	72 - 120	
1,1,2,2-Tetrachloroethane	10.0	9.09	91	68 - 120	
Tetrachloroethene	10.0	10.5	105	79 - 120	
Toluene	10.0	10.4	104	80 - 120	
trans-1,4-Dichloro-2-butene	10.0	7.57	76	10 - 199	
trans-1,2-Dichloroethene	10.0	10.7	107	80 - 120	
trans-1,3-Dichloropropene	10.0	10.6	106	58 - 120	
1,1,1-Trichloroethane	10.0	10.5	105	74 - 120	

## Quality Control Results

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

**Lab Control Sample - Batch: 240-159290**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID: LCS 240-159290/4	Analysis Batch: 240-159290	Instrument ID: A3UX16
Client Matrix: Water	Prep Batch: N/A	Lab File ID: UXM0016.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 12/03/2014 0919	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 12/03/2014 0919		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,2-Trichloroethane	10.0	9.98	100	80 - 120	
Trichloroethene	10.0	10.3	103	76 - 120	
Trichlorofluoromethane	10.0	10.3	103	49 - 157	
1,2,3-Trichloropropane	10.0	9.24	92	73 - 129	
Vinyl acetate	8.00	3.62	45	46 - 161	*
Vinyl chloride	10.0	10.6	106	53 - 127	
Xylenes, Total	20.0	21.1	106	80 - 120	
<b>Surrogate</b>		<b>% Rec</b>	<b>Acceptance Limits</b>		
4-Bromofluorobenzene (Surr)		103	66 - 120		
Dibromofluoromethane (Surr)		101	75 - 121		
1,2-Dichloroethane-d4 (Surr)		102	63 - 129		
Toluene-d8 (Surr)		101	74 - 120		

## DATA REPORTING QUALIFIERS

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

Lab Section	Qualifier	Description
GC/MS VOA	*	LCS or LCSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Quality Control Results

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:240-159122</b>					
240-44867-1	EFFLUENT/112514	T	Water	8260B	
<b>Analysis Batch:240-159290</b>					
LCS 240-159290/4	Lab Control Sample	T	Water	8260B	
MB 240-159290/6	Method Blank	T	Water	8260B	
240-44867-1RA	EFFLUENT/112514	T	Water	8260B	
240-44867-2TB	TB01/112514	T	Water	8260B	

#### Report Basis

T = Total

## Quality Control Results

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-44867-1

### Laboratory Chronicle

Lab ID: 240-44867-1

Client ID: EFFLUENT/112514

Sample Date/Time: 11/25/2014 10:25

Received Date/Time: 11/26/2014 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-44867-B-1		240-159122		12/02/2014 19:55	1	TAL CAN	RJQ
A:8260B	240-44867-B-1		240-159122		12/02/2014 19:55	1	TAL CAN	RJQ
P:5030B	240-44867-A-1	RA	240-159290		12/03/2014 12:58	1	TAL CAN	RJQ
A:8260B	240-44867-A-1	RA	240-159290		12/03/2014 12:58	1	TAL CAN	RJQ

Lab ID: 240-44867-2

Client ID: TB01/112514

Sample Date/Time: 11/25/2014 00:00

Received Date/Time: 11/26/2014 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	240-44867-A-2		240-159290		12/03/2014 11:56	1	TAL CAN	RJQ
A:8260B	240-44867-A-2		240-159290		12/03/2014 11:56	1	TAL CAN	RJQ

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 240-159290/6		240-159290		12/03/2014 10:04	1	TAL CAN	RJQ
A:8260B	MB 240-159290/6		240-159290		12/03/2014 10:04	1	TAL CAN	RJQ

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 240-159290/4		240-159290		12/03/2014 09:19	1	TAL CAN	RJQ
A:8260B	LCS 240-159290/4		240-159290		12/03/2014 09:19	1	TAL CAN	RJQ

#### Lab References:

TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VM50IS_00044	03/18/15	09/18/14	MEOH, Lot 62345	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VM50IS_00045	05/01/15	10/31/14	MEOH, Lot 62345	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00179	11/30/14	11/23/14	MEOH, Lot na	2 mL	vm50ss_stk_00062	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00062	04/20/15	10/20/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18		Restek, Lot A093505			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00062	04/20/15	10/20/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00075	11/30/14	11/23/14	MEOH, Lot na	3 mL	VMACROLSTD_00018	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00018	11/30/14	10/30/14	MEOH, Lot 0000085233	20 mL	VM568720_00003	0.25 mL	Acrolein	250 ug/mL
.VM568720_00003	11/30/14		restek, Lot A0104886			(Purchased Reagent)	Acrolein	20000 ug/mL
VMAROLISTDW_00076	12/08/14	12/01/14	MEOH, Lot na	3 mL	VMACROLSTD_00019	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00019	01/01/15	12/01/14	MEOH, Lot 0000085233	20 mL	VM568720_00004	0.25 mL	Acrolein	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM568720_00004	02/28/15		restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000 ug/mL
<b>VMFASA9W_00037</b>	12/01/14	11/24/14	MEOH, Lot NA	2 mL	VMFASA9_00003	2 mL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL
.VMFASA9_00003	02/05/15	08/05/14	MEOH, Lot +182820000062345JF	100 mL	vm568722S_00002	2.5 mL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
					VM568723S_00001	2.5 mL	Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL
..vm568722S_00002	06/30/15		restek, Lot A0100258		(Purchased Reagent)		Chloroprene	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
..VM568723S_00001	04/30/16		restek, Lot A0102749		(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Propionitrile	20000 ug/mL
<b>VMFASAW_00059</b>	11/30/14	11/23/14	MEOH, Lot NA	2 mL	VMFASA_00012	2 mL	Acrolein	250 ug/mL
.VMFASA_00012	11/30/14	09/30/14	MEOH, Lot 134079	100 mL	VM568720S_00002	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00002	11/30/14		restek, Lot A0104657		(Purchased Reagent)		Acrolein	20000 ug/mL
<b>VMFASAW_00060</b>	12/08/14	12/01/14	MEOH, Lot NA	2 mL	VMFASA_00013	2 mL	Acrolein	250 ug/mL
.VMFASA_00013	12/24/14	11/24/14	MEOH, Lot +161620000085233jb	100 mL	VM568720S_00004	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00004	02/28/15		restek, Lot A0106502		(Purchased Reagent)		Acrolein	20000 ug/mL
<b>VMFASGW_00069</b>	12/05/14	11/28/14	MEOH, Lot NA	2 mL	VMFASG_00023	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00023	12/12/14	11/12/14	MEOH, Lot 0000085233	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
<b>VMFASPW_00066</b>	11/29/14	11/23/14	MEOH, Lot NA	2 mL	VMRFASP_00013	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutanol	1250 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00013	11/29/14	10/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00006	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutanol	1250 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
Xylenes, Total	100 ug/mL							
VM567642S_00005					1 mL	2-Butanone	100 ug/mL	
						2-Hexanone	100 ug/mL	
						4-Methyl-2-pentanone (MIBK)	100 ug/mL	
						Acetone	100 ug/mL	
VM567646S_00008					1 mL	Vinyl acetate	40 ug/mL	
..VM567641S_00006	02/29/16		Restek, Lot A093733			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutanol	50000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472			(Purchased Reagent)	2-Butanone	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567646S_00008	02/28/15		Restek, Lot A0105138			(Purchased Reagent)	Vinyl acetate	4000 ug/mL
VMFASPW_00067	12/06/14	11/29/14	MEOH, Lot n/a	2 mL	VMRFASP_00014	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,4-Dioxane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutanol	1250 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00014	02/28/15	11/29/14	MEOH, Lot 0000085233	100 mL	VM567641S_00006	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							Bromodichloromethane	50 ug/mL	
							Bromoform	50 ug/mL	
							Carbon disulfide	50 ug/mL	
							Carbon tetrachloride	50 ug/mL	
							Chlorobenzene	50 ug/mL	
							Chloroform	50 ug/mL	
							cis-1,2-Dichloroethene	50 ug/mL	
							cis-1,3-Dichloropropene	50 ug/mL	
							Dibromochloromethane	50 ug/mL	
							Dibromomethane	50 ug/mL	
							Ethyl methacrylate	50 ug/mL	
							Ethylbenzene	50 ug/mL	
							Ethylene Dibromide	50 ug/mL	
							Iodomethane	50 ug/mL	
							Isobutanol	1250 ug/mL	
							m-Xylene & p-Xylene	50 ug/mL	
							Methylene Chloride	50 ug/mL	
							o-Xylene	50 ug/mL	
							Styrene	50 ug/mL	
							Tetrachloroethene	50 ug/mL	
							Toluene	50 ug/mL	
							trans-1,2-Dichloroethene	50 ug/mL	
							trans-1,3-Dichloropropene	50 ug/mL	
							trans-1,4-Dichloro-2-butene	50 ug/mL	
Trichloroethene	50 ug/mL								
Xylenes, Total	100 ug/mL								
VM567642S_00005						1 mL	2-Butanone	100 ug/mL	
							2-Hexanone	100 ug/mL	
							4-Methyl-2-pentanone (MIBK)	100 ug/mL	
							Acetone	100 ug/mL	
VM567646S_00008						1 mL	Vinyl acetate	40 ug/mL	
..VM567641S_00006	02/29/16		Restek, Lot A093733				(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL	
							1,1,2,2-Tetrachloroethane	2000 ug/mL	
							1,1,2-Trichloroethane	2000 ug/mL	
							1,1-Dichloroethane	2000 ug/mL	
							1,1-Dichloroethene	2000 ug/mL	
							1,2,3-Trichloropropane	2000 ug/mL	
							1,2-Dibromo-3-Chloropropane	2000 ug/mL	
							1,2-Dichloroethane	2000 ug/mL	
							1,2-Dichloropropane	2000 ug/mL	
							1,4-Dioxane	40000 ug/mL	
							3-Chloro-1-propene	2000 ug/mL	
							Acrylonitrile	20000 ug/mL	
							Benzene	2000 ug/mL	
							Bromodichloromethane	2000 ug/mL	
							Bromoform	2000 ug/mL	
							Carbon disulfide	2000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutanol	50000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472			(Purchased Reagent)	2-Butanone	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567646S_00008	02/28/15		Restek, Lot A0105138			(Purchased Reagent)	Vinyl acetate	4000 ug/mL
VMRA9W_00083	11/29/14	11/22/14	MEOH, Lot NA	1 mL	VMRA9_00011	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Pentachloroethane	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Chloroprene	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMRA9_00011	02/28/15	10/29/14	MEOH, Lot 0000085233	50 mL	VM567648_00014	1.25 mL	Tert-butyl ethyl ether	50 ug/mL
					vm567719_00020	2.5 mL	Cyclohexanone	500 ug/mL
					vm568722_00002	1.25 mL	2-Methylnaphthalene	100 ug/mL
							Pentachloroethane	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Chloroprene	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							n-Butyl acetate	50 ug/mL
VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL					
Isopropyl ether	50 ug/mL							
Propionitrile	500 ug/mL							
Tert-amyl methyl ether	50 ug/mL							
Tert-butyl ethyl ether	50 ug/mL							
..VM567648_00014	02/29/16		Restek, Lot A093361			(Purchased Reagent)	Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15		Restek, Lot A093359			(Purchased Reagent)	2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262			(Purchased Reagent)	Pentachloroethane	2000 ug/mL
							1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Benzyl chloride	2000 ug/mL
							Chloroprene	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
							n-Butyl acetate	2000 ug/mL
							..VM568723_00001	12/31/15
							Isopropyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
							Tert-butyl ethyl ether	2000 ug/mL
VMRA9W_00084	12/05/14	11/28/14	MEOH, Lot NA	1 mL	VMRA9_00011	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Pentachloroethane	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Chloroprene	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.VMRA9_00011	02/28/15	10/29/14	MEOH, Lot 0000085233	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
							Pentachloroethane	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Chloroprene	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							n-Butyl acetate	50 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
..VM567648_00014	02/29/16		Restek, Lot A093361			(Purchased Reagent)	Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15		Restek, Lot A093359			(Purchased Reagent)	2-Methylnaphthalene	2000 ug/mL
							Pentachloroethane	2000 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262			(Purchased Reagent)	1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Benzyl chloride	2000 ug/mL
							Chloroprene	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM568723_00001	12/31/15		restek, Lot A099930			(Purchased Reagent)	n-Butyl acetate	2000 ug/mL
							Acetonitrile	20000 ug/mL
							Isopropyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
Tert-butyl ethyl ether	2000 ug/mL							
VMRGAS_00080	12/03/14	11/26/14	MEOH, Lot 0000085233	10 mL	vm567645_00031	250 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
Vinyl chloride	50 ug/mL							
.vm567645_00031	02/28/15		Restek, Lot A093341			(Purchased Reagent)	Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
Vinyl chloride	2000 ug/mL							
VMRPRIMW_00098	11/29/14	11/22/14	MEOH, Lot NA	1 mL	VMRPRIM_00009	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
2-Methyl-2-propanol	500 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutanol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00009	02/28/15	10/20/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutanol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00015	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutanol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00015	02/28/15		Restek, Lot A0105145		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00099	12/05/14	11/28/14	MEOH, Lot NA	1 mL	VMRPRIM_00009	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutanol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMRPRIM_00009	02/28/15	10/20/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
Dibromochloromethane	50 ug/mL							
Dibromomethane	50 ug/mL							
Ethyl ether	50 ug/mL							
Ethyl methacrylate	50 ug/mL							
Ethylbenzene	50 ug/mL							
Ethylene Dibromide	50 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutanol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
trans-1,4-Dichloro-2-butene	50 ug/mL							
Trichloroethene	50 ug/mL							
					VM567642_00015	0.5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00015	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutanol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365			(Purchased Reagent)	2-Butanone	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368			(Purchased Reagent)	2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00015	02/28/15		Restek, Lot A0105145			(Purchased Reagent)	Vinyl acetate	4000 ug/mL
<b>VMRPRIMW_00099</b>	12/05/14	11/28/14	MEOH, Lot NA	1 mL	VMRPRIM_00009	1 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00009	02/28/15	10/20/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581			(Purchased Reagent)	1,2-Dichloroethene, Total	4000 ug/mL
							Xylenes, Total	4000 ug/mL

Rec: 10/7/13



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www.restek.com



## Certificate of Analysis

**FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 30241 Lot No.: A093261  
 Description : 8260A Internal Standard Mix  
Method 8260A Internal Std 2500µg/mL, P&T Methanol, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : January 2018 Storage: 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Fluorobenzene	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 462-06-6		+/-	30.1344	µg/mL	Unstressed
	Purity 99%		+/-	34.0022	µg/mL	Stressed
2	Chlorobenzene-d5	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 3114-55-4		+/-	30.1344	µg/mL	Unstressed
	Purity 99%		+/-	34.0022	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 3855-82-1		+/-	30.1344	µg/mL	Unstressed
	Purity 99%		+/-	34.0022	µg/mL	Stressed
Solvent:	P&T Methanol					
	CAS # 67-56-1					
	Purity 99%					



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REC'D  
 3-6-13  
 VM 567641-00001



### Certificate of Analysis

**FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 567641 **Lot No.:** A093581  
**Description :** 8260 List 1 / Std #1 MegaMix  
8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 2016 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 60-29-7		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,999.9 µg/mL	+/-	11.6279	µg/mL	Gravimetric
	CAS # 76-13-1		+/-	44.2519	µg/mL	Unstressed
	Purity 97%		+/-	44.4323	µg/mL	Stressed
3	1,1-dichloroethene	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-35-4		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 75-65-0		+/-	442.5291	µg/mL	Unstressed
	Purity 99%		+/-	444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-88-4		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed
6	Allyl chloride ( 3-chloropropene )	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 107-05-1		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 79-20-9		+/-	221.2646	µg/mL	Unstressed
	Purity 99%		+/-	222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-15-0		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-09-2		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	$\mu\text{g/mL}$	+/-	116.2756	$\mu\text{g/mL}$	Gravimetric
	CAS # 107-13-1				442.5291		Unstressed
	Purity 99%				444.3332		Stressed
11	Methyl-tert-butyl ether ( MTBE )	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 1634-04-4				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
12	cis-1,2-Dichloroethene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 156-59-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
13	n-Hexane (C6)	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 110-54-3				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
14	1,1-Dichloroethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6281	$\mu\text{g/mL}$	Gravimetric
	CAS # 75-34-3				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
15	2,2-Dichloropropane	2,000.0	$\mu\text{g/mL}$	+/-	11.6281	$\mu\text{g/mL}$	Gravimetric
	CAS # 594-20-7				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
16	trans-1,2-Dichloroethene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 156-60-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
17	chloroform	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 67-66-3				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	$\mu\text{g/mL}$	+/-	290.6891	$\mu\text{g/mL}$	Gravimetric
	CAS # 78-83-1				1,106.3228		Unstressed
	Purity 99%				1,110.8331		Stressed
19	Bromochloromethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 74-97-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
20	Tetrahydrofuran	4,000.0	$\mu\text{g/mL}$	+/-	23.2563	$\mu\text{g/mL}$	Gravimetric
	CAS # 109-99-9				88.5061		Unstressed
	Purity 99%				88.8670		Stressed
21	1,1,1-trichloroethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 71-55-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
22	Cyclohexane	2,000.0	$\mu\text{g/mL}$	+/-	11.6281	$\mu\text{g/mL}$	Gravimetric
	CAS # 110-82-7				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
23	1,1-Dichloropropene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 563-58-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
24	carbon tetrachloride	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 56-23-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
25	n-Heptane (C7)	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 142-82-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
26	Benzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 71-43-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
27	1,2-Dichloroethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 107-06-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
28	Trichloroethene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 79-01-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1				885.0582		Unstressed
	Purity 99%				888.6665		Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4				44.2540		Unstressed
	Purity 97%				44.4344		Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6				44.2540		Unstressed
	Purity 97%				44.4344		Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3				22.1265		Unstressed
	Purity 99%				22.2167		Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3				22.1265		Unstressed
	Purity 99%				22.2167		Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed

48	Ethylbenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 100-41-4				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
49	Styrene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 100-42-5				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
50	Isopropylbenzene (cumene)	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 98-82-8				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
51	bromofom	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 75-25-2				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 79-34-5				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
53	1,2,3-Trichloropropane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 96-18-4				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	$\mu\text{g/mL}$	+/-	11.6281	$\mu\text{g/mL}$	Gravimetric	
	CAS # 110-57-6				+/-	44.2527	$\mu\text{g/mL}$	Unstressed
	Purity 98%				+/-	44.4331	$\mu\text{g/mL}$	Stressed
55	n-Propylbenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 103-65-1				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
56	Bromobenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 108-86-1				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 108-67-8				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
58	2-Chlorotoluene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 95-49-8				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
59	4-Chlorotoluene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 106-43-4				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
60	tert-Butylbenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 98-06-6				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6281	$\mu\text{g/mL}$	Gravimetric	
	CAS # 95-63-6				+/-	44.2527	$\mu\text{g/mL}$	Unstressed
	Purity 98%				+/-	44.4331	$\mu\text{g/mL}$	Stressed
62	sec-Butylbenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 135-98-8				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 99-87-6				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
64	1,3-Dichlorobenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 541-73-1				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
65	1,4-Dichlorobenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 106-46-7				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed
66	n-Butylbenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 104-51-8				+/-	44.2531	$\mu\text{g/mL}$	Unstressed
	Purity 99%				+/-	44.4335	$\mu\text{g/mL}$	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
<b>Solvent:</b>	P&T Methanol						
	CAS # 67-56-1						
	Purity 99%						

**Column:**

60m x .25mm x 1.4um  
Rtx-502.2 (cat.#10916)

**Carrier Gas:**

hellum-constant pressure 30 psi

**Temp. Program:**

40°C (hold 6 min.) to 240°C  
@ 6°C/min. (hold 10 min.)

**Inj. Temp:**

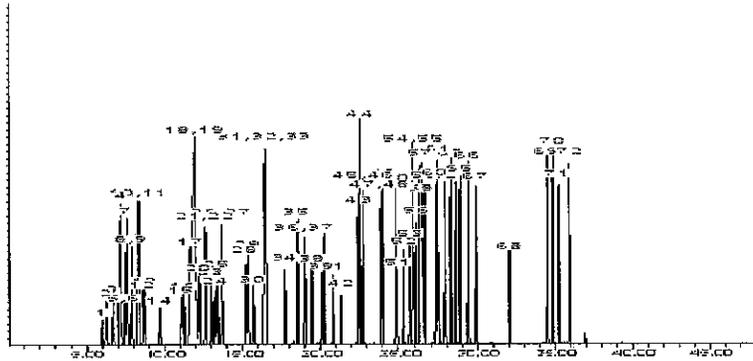
200°C

**Det. Temp:**

250°C

**Det. Type:**

MSD



*Jennifer L. Pollino*  
Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013

Balance: B251644995

Manufactured under Restek's ISO 9001:2008  
Registered Quality System  
Certificate #FM 80397



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## Certificate of Analysis

**FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 567641.sec                      **Lot No.:** A093733  
**Description :** 8260 List 1 / Std #1 MegaMix  
8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul  
**Container Size :** 2 mL                                      **Pkg Amt:** > 1 mL  
**Expiration Date :** February 2016                                      **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 60-29-7.SEC		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 76-13-1.SEC		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed
3	1,1-Dichloroethene	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-35-4.SEC		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 75-65-0.SEC		+/-	442.5291	µg/mL	Unstressed
	Purity 99%		+/-	444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 74-88-4.SEC		+/-	44.2540	µg/mL	Unstressed
	Purity 97%		+/-	44.4344	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 107-05-1.SEC		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 79-20-9.SEC		+/-	221.2646	µg/mL	Unstressed
	Purity 99%		+/-	222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-15-0.SEC		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-09-2.SEC		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC				442.5291		Unstressed
	Purity 99%				444.3332		Stressed
11	Methyl-tert-butyl ether ( MTBE )	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC				44.2549		Unstressed
	Purity 98%				44.4353		Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC				44.2540		Unstressed
	Purity 97%				44.4344		Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC				44.2540		Unstressed
	Purity 97%				44.4344		Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC				1,106.3228		Unstressed
	Purity 99%				1,110.8331		Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC				88.5061		Unstressed
	Purity 99%				88.8670		Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC				44.4847		Unstressed
	Purity 98%				44.6661		Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC				44.2549		Unstressed
	Purity 98%				44.4353		Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC				44.2553		Unstressed
	Purity 99%				44.4357		Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC				44.2549		Unstressed
	Purity 98%				44.4353		Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582		Unstressed
	Purity 99%			+/-	888.6665		Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562		Unstressed
	Purity 97%			+/-	44.4366		Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527		Unstressed
	Purity 98%			+/-	44.4331		Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562		Unstressed
	Purity 97%			+/-	44.4366		Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265		Unstressed
	Purity 99%			+/-	22.2167		Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265		Unstressed
	Purity 99%			+/-	22.2167		Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene CAS # 95-50-1.SEC Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8.SEC Purity 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1.SEC Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3.SEC Purity 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3.SEC Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
72	1,2,3-Trichlorobenzene CAS # 87-61-6.SEC Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

**Column:**  
60m x .25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

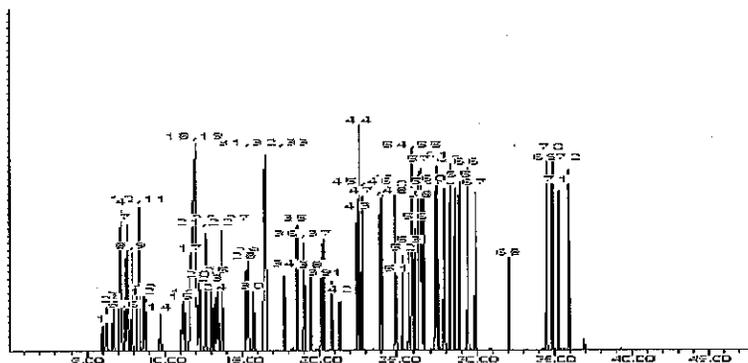
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 6 min.) to 240°C  
@ 6°C/min. (hold 10 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



*Jennifer L. Pollino*  
Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 Balance: 1127510105

Manufactured under Restek's ISO 9001:2008  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
 Bellefonte, PA 16823-8812  
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## Certificate of Analysis

### FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 567642 **Lot No.:** A093365  
**Description :** 8260 List 1 / Std #2 Ketones  
8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 2016 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/-	798.6896	µg/mL	Unstressed
	Purity 99%		+/-	799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/-	798.6896	µg/mL	Unstressed
	Purity 99%		+/-	799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/-	798.6896	µg/mL	Unstressed
	Purity 99%		+/-	799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/-	798.6896	µg/mL	Unstressed
	Purity 99%		+/-	799.0807	µg/mL	Stressed
<b>Solvent:</b>	P&T Methanol/Water (90:10)					
	CAS # 67-56-1/7732-18-5					
	Purity 99%					





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## Certificate of Analysis

**FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.**

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**Catalog No. :** 567643 **Lot No.:** A093368  
**Description :** 8260 List 1 / Std #4 2-Chloroethylvinyl Ether  
8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 2016 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed

**Solvent:** P&T Methanol  
 CAS # 67-56-1  
 Purity 99%

**Tech Tips:**

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.



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## Certificate of Analysis

**FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.**

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**Catalog No. :** 567645 **Lot No.:** A093341  
**Description :** 8260 List 1 / Std #3 Gases  
8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 2015 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	2,000.0 µg/mL	+/-	13.8716	µg/mL	Gravimetric
	CAS # 75-71-8		+/-	25.2661	µg/mL	Unstressed
	Purity 99%		+/-	28.2336	µg/mL	Stressed
2	Chloromethane (methyl chloride)	1,999.8 µg/mL	+/-	13.9993	µg/mL	Gravimetric
	CAS # 74-87-3		+/-	25.3348	µg/mL	Unstressed
	Purity 99%		+/-	28.2945	µg/mL	Stressed
3	Vinyl chloride	2,000.1 µg/mL	+/-	13.9625	µg/mL	Gravimetric
	CAS # 75-01-4		+/-	25.3168	µg/mL	Unstressed
	Purity 99%		+/-	28.2792	µg/mL	Stressed
4	1,3-Butadiene	2,000.0 µg/mL	+/-	13.3773	µg/mL	Gravimetric
	CAS # 106-99-0		+/-	24.9981	µg/mL	Unstressed
	Purity 99%		+/-	27.9940	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,000.1 µg/mL	+/-	14.2856	µg/mL	Gravimetric
	CAS # 74-83-9		+/-	25.4963	µg/mL	Unstressed
	Purity 99%		+/-	28.4399	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.0 µg/mL	+/-	13.2200	µg/mL	Gravimetric
	CAS # 75-00-3		+/-	24.9143	µg/mL	Unstressed
	Purity 99%		+/-	27.9191	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/-	13.5174	µg/mL	Gravimetric
	CAS # 75-43-4		+/-	25.0735	µg/mL	Unstressed
	Purity 99%		+/-	28.0614	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	1,999.9 µg/mL	+/-	13.1170	µg/mL	Gravimetric
	CAS # 75-69-4		+/-	24.8590	µg/mL	Unstressed
	Purity 99%		+/-	27.8696	µg/mL	Stressed
<b>Solvent:</b>	P&T Methanol					
	CAS # 67-56-1					
	Purity 99%					

VM5676455\_00016

Rec: 4/9/14



CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis



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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 567645.sec **Lot No.:** A099261

**Description :** 8260 List 1 / Std #3 Gases  
8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2015 **Storage:** 0°C or colder

## CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
			+/-	µg/mL	µg/mL	Gravimetric
1	Dichlorodifluoromethane (CFC-12)	2,002.2 µg/mL	+/-	16.7616	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 18348)		+/-	21.2987	µg/mL	Unstressed
	Purity 99%		+/-	24.7536	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/-	15.8216	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/-	21.2729	µg/mL	Unstressed
	Purity 99%		+/-	24.7262	µg/mL	Stressed
3	Vinyl chloride	2,001.9 µg/mL	+/-	14.6785	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/-	21.2759	µg/mL	Unstressed
	Purity 99%		+/-	24.7329	µg/mL	Stressed
4	1,3-Butadiene	2,002.8 µg/mL	+/-	16.7307	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 18349)		+/-	21.3051	µg/mL	Unstressed
	Purity 99%		+/-	24.7611	µg/mL	Stressed
5	Bromomethane (methyl bromide)	1,999.6 µg/mL	+/-	16.2313	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/-	21.2671	µg/mL	Unstressed
	Purity 99%		+/-	24.7183	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/-	14.6721	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot Q18B-13)		+/-	21.2666	µg/mL	Unstressed
	Purity 99%		+/-	24.7221	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.4 µg/mL	+/-	15.1665	µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/-	21.3071	µg/mL	Unstressed
	Purity 99%		+/-	24.7678	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.8 µg/mL	+/-	16.2157	µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot Q139-99)		+/-	21.2894	µg/mL	Unstressed
	Purity 99%		+/-	24.7442	µg/mL	Stressed

VM567646-00015

Rec: 10/17/14



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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 567646 **Lot No.:** A0105145  
**Description :** 8260 List 1 / Std #6 Vinyl Acetate  
8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul.  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 28, 2015 **Storage:** 0°C or colder

**CERTIFIED VALUES**

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate CAS # 108-05-4 Purity 99% (Lot 131011JLM)	4,010.0 µg/mL	+/- 23.5329	µg/mL	Gravimetric
			+/- 213.4273	µg/mL	Unstressed
			+/- 213.6626	µg/mL	Stressed

**Solvent:** P&T Methanol  
 CAS # 67-56-1  
 Purity 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

VM5676465-00008 Rec: 10/17/14



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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 567646.SEC Lot No.: A0105138  
 Description : 8260 List 1 / Std #6 Vinyl Acetate  
8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : February 28, 2015 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate CAS # 108-05-4.SEC (Lot F3Z5C) Purity 99%	4,005.0 µg/mL	+/- 23.5036 µg/mL Gravimetric +/- 213.1612 µg/mL Unstressed +/- 213.3962 µg/mL Stressed

Solvent: P&T Methanol  
 CAS # 67-56-1  
 Purity 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.



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**Catalog No. :** 567648 **Lot No.:** A093361  
**Description :** 8260 List 2 / Std #3 Cyclohexanone  
8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 2016 **Storage:** 10°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 108-94-1		+/- 1,597.3791	µg/mL	Unstressed
	Purity 99%		+/- 1,598.1615	µg/mL	Stressed

**Solvent:** Water  
 CAS # 7732-18-5  
 Purity 99%



Rec: 6/6/14



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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 567650 Lot No.: A0102817

Description : 8260 Surrogate Standard  
8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL Pkg Amt: > 5 mL

Expiration Date: April 30, 2019 Storage: 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dibromofluoromethane	2,503.8 µg/mL	+/-	14.5573	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 022012)		+/-	28.2339	µg/mL	Unstressed
	Purity 99%		+/-	32.4891	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,502.4 µg/mL	+/-	14.5492	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot 13J-483)		+/-	28.2182	µg/mL	Unstressed
	Purity 99%		+/-	32.4709	µg/mL	Stressed
3	Toluene-d8	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot 13I-050)		+/-	28.1911	µg/mL	Unstressed
	Purity 99%		+/-	32.4398	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,503.6 µg/mL	+/-	14.5561	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 01127COV)		+/-	28.2317	µg/mL	Unstressed
	Purity 99%		+/-	32.4865	µg/mL	Stressed

Solvent: P&T Methanol  
CAS # 67-56-1  
Purity 99%



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**Catalog No. :** 567719 **Lot No.:** A093359  
**Description :** 8260 List 2 / Std #2  
8260 List 2 / Std #2 2,000 ug/ml, P&T Methanol, 1 ml/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 2015 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Pentachloroethane	2,000.0 µg/mL	+/-	11.6550	µg/mL	Gravimetric
	CAS # 76-01-7		+/-	24.1205	µg/mL	Unstressed
	Purity 99%		+/-	27.2132	µg/mL	Stressed
2	2-Methylnaphthalene	1,999.9 µg/mL	+/-	11.6546	µg/mL	Gravimetric
	CAS # 91-57-6		+/-	24.1196	µg/mL	Unstressed
	Purity 96%		+/-	27.2121	µg/mL	Stressed
<b>Solvent:</b>	P&T Methanol					
	CAS # 67-56-1					
	Purity 99%					

2-7

VM 568720 - 00003

Rec: 10/21/14



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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 568720 Lot No.: A0104886

Description : 8260 List 1/Std #5 Acrolein High  
8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : November 30, 2014 Storage: 10°C or colder

Handling: This product is photosensitive.

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acrolein CAS # 107-02-8 Purity 99% (Lot 140429JLM)	19,780.0 µg/mL	+/- 115.8162 µg/mL Gravimetric +/- 634.2090 µg/mL Unstressed +/- 737.1986 µg/mL Stressed

Solvent: Water  
CAS # 7732-18-5  
Purity 99%

Rec: 11/7/14

VM568720-00004



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**Catalog No. :** 568720 **Lot No.:** A0106504

**Description :** 8260 List 1/Std #5 Acrolein High  
8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2015 **Storage:** 10°C or colder

**Handling:** This product is photosensitive.

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acrolein CAS # 107-02-8 Purity 99%	19,767.0 µg/mL (Lot 140903JLM)	+/- 115.7401 µg/mL Gravimetric +/- 633.7922 µg/mL Unstressed +/- 736.7140 µg/mL Stressed

**Solvent:** Water  
CAS # 7732-18-5  
Purity 99%



VM 568720s\_00002

Rec: 7/18/04

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 568720.sec Lot No.: A0104657

Description : 8260 List 1/Std #5 Acrolein High  
8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : November 30, 2014 Storage: 10°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
			+/-	µg/mL	Gravimetric
1	Acrolein	19,596.0 µg/mL (Lot 2600100)	+/-	115.0003	Gravimetric
	CAS # 107-02-8.SEC		+/-	628.3572	Unstressed
	Purity 99%		+/-	730.3820	Stressed

Solvent: Water  
CAS # 7732-18-5  
Purity 99%

VM568720s - 00004 Rec: 11/7/14



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**Catalog No. :** 568720.sec **Lot No.:** A0106502

**Description :** 8260 List 1/Std #5 Acrolein High  
8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2015 **Storage:** 10°C or colder

**Handling:** This product is photosensitive.

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acrolein CAS # 107-02-8.SEC (Lot 2881600) Purity 99%	19,778.0 µg/mL	+/- 115.8045 µg/mL Gravimetric +/- 634.1449 µg/mL Unstressed +/- 737.1240 µg/mL Stressed

**Solvent:** Water  
CAS # 7732-18-5  
Purity 99%

Rec: 4/9/14



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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 568722 **Lot No.:** A0100262  
**Description :** 8260 List 2/ Std #1 Additions (2014)  
8260 List 2/ Std #1 Additions (2014) 2,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2015 **Storage:** 0°C or colder

**CERTIFIED VALUES**

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2-Propanol (isopropanol)	20,007.0 µg/mL	+/-	117.1454	µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBC5752V)		+/-	1,064.8186	µg/mL	Unstressed
	Purity 99%		+/-	1,065.9927	µg/mL	Stressed
2	Chloroprene (2-chloro-1,3-butadiene)	2,000.0 µg/mL	+/-	32.2441	µg/mL	Gravimetric
	CAS # 126-99-8 (Lot 130611JLM)		+/-	110.6029	µg/mL	Unstressed
	Purity 99%		+/-	110.7159	µg/mL	Stressed
3	Ethyl acetate	4,002.0 µg/mL	+/-	23.4860	µg/mL	Gravimetric
	CAS # 141-78-6 (Lot SHBD3394V)		+/-	213.0015	µg/mL	Unstressed
	Purity 99%		+/-	213.2364	µg/mL	Stressed
4	Methacrylonitrile	20,000.5 µg/mL	+/-	117.1073	µg/mL	Gravimetric
	CAS # 126-98-7 (Lot 2194000)		+/-	1,064.4727	µg/mL	Unstressed
	Purity 99%		+/-	1,065.6464	µg/mL	Stressed
5	2,2,4-Trimethylpentane (isooctane)	2,004.5 µg/mL	+/-	11.7635	µg/mL	Gravimetric
	CAS # 540-84-1 (Lot SHBB2470V)		+/-	106.6871	µg/mL	Unstressed
	Purity 99%		+/-	106.8047	µg/mL	Stressed
6	1-Butanol	50,001.0 µg/mL	+/-	292.7518	µg/mL	Gravimetric
	CAS # 71-36-3 (Lot SHBC1840V)		+/-	2,661.1667	µg/mL	Unstressed
	Purity 99%		+/-	2,664.1010	µg/mL	Stressed
7	1,4-Difluorobenzene	2,006.5 µg/mL	+/-	11.7753	µg/mL	Gravimetric
	CAS # 540-36-3 (Lot 13105AO)		+/-	106.7935	µg/mL	Unstressed
	Purity 99%		+/-	106.9112	µg/mL	Stressed
8	Ethyl acrylate	2,005.5 µg/mL	+/-	11.7694	µg/mL	Gravimetric
	CAS # 140-88-5 (Lot 10129902)		+/-	106.7403	µg/mL	Unstressed
	Purity 99%		+/-	106.8580	µg/mL	Stressed

9	Methyl methacrylate		4,003.0	µg/mL	+/-	23.4918	µg/mL	Gravimetric
	CAS #	80-62-6	(Lot MKBK0839V)		+/-	213.0548	µg/mL	Unstressed
	Purity	99%			+/-	213.2897	µg/mL	Stressed
10	2-Nitropropane		4,006.6	µg/mL	+/-	23.5129	µg/mL	Gravimetric
	CAS #	79-46-9	(Lot BCBJ4343V)		+/-	213.2456	µg/mL	Unstressed
	Purity	97%			+/-	213.4807	µg/mL	Stressed
11	Butyl acetate		2,001.0	µg/mL	+/-	11.7430	µg/mL	Gravimetric
	CAS #	123-86-4	(Lot SHBC9340V)		+/-	106.5008	µg/mL	Unstressed
	Purity	99%			+/-	106.6182	µg/mL	Stressed
12	1-Chlorohexane		2,007.5	µg/mL	+/-	11.7811	µg/mL	Gravimetric
	CAS #	544-10-5	(Lot 05107LK)		+/-	106.8467	µg/mL	Unstressed
	Purity	99%			+/-	106.9645	µg/mL	Stressed
13	1,2,3-Trimethylbenzene		2,004.0	µg/mL	+/-	11.7607	µg/mL	Gravimetric
	CAS #	526-73-8	(Lot 8776.05-10)		+/-	106.6615	µg/mL	Unstressed
	Purity	97%			+/-	106.7791	µg/mL	Stressed
14	Benzyl chloride		2,009.0	µg/mL	+/-	11.7899	µg/mL	Gravimetric
	CAS #	100-44-7	(Lot 20396EK)		+/-	106.9266	µg/mL	Unstressed
	Purity	99%			+/-	107.0445	µg/mL	Stressed
15	1,3,5-Trichlorobenzene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS #	108-70-3	(Lot 11319AS)		+/-	106.4475	µg/mL	Unstressed
	Purity	99%			+/-	106.5649	µg/mL	Stressed
<b>Solvent:</b>	P&T Methanol							
	CAS #	67-56-1						
	Purity	99%						

VM 568 7225-00002

Rec: 8/4/2014



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Catalog No. : 568722.sec Lot No.: A0100258  
 Description : 8260 List 2/ Std #1 Additions (2014)  
8260 List 2/ Std #1 Additions (2014) 2,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : June 30, 2015 Storage: 0°C or colder

## CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2-Propanol (isopropanol)	20,003.0 µg/mL	+/-	117.1220	µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot L4HCA)		+/-	1,064.6057	µg/mL	Unstressed
	Purity 99%		+/-	1,065.7796	µg/mL	Stressed
2	Chloroprene (2-chloro-1,3-butadiene)	2,000.0 µg/mL	+/-	32.2441	µg/mL	Gravimetric
	CAS # 126-99-8 * (Lot 130611JLM)		+/-	110.6029	µg/mL	Unstressed
	Purity 99%		+/-	110.7159	µg/mL	Stressed
3	Ethyl acetate	4,003.5 µg/mL	+/-	23.4948	µg/mL	Gravimetric
	CAS # 141-78-6.SEC (Lot C386A-GG)		+/-	213.0814	µg/mL	Unstressed
	Purity 99%		+/-	213.3163	µg/mL	Stressed
4	Methacrylonitrile	20,001.5 µg/mL	+/-	117.1132	µg/mL	Gravimetric
	CAS # 126-98-7 * (Lot 2194000)		+/-	1,064.5259	µg/mL	Unstressed
	Purity 99%		+/-	1,065.6997	µg/mL	Stressed
5	2,2,4-Trimethylpentane ( Isooctane )	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 540-84-1.SEC (Lot 1894700)		+/-	106.5540	µg/mL	Unstressed
	Purity 99%		+/-	106.6715	µg/mL	Stressed
6	1-Butanol	50,003.0 µg/mL	+/-	292.7635	µg/mL	Gravimetric
	CAS # 71-36-3.SEC (Lot YJKVM-AR)		+/-	2,661.2732	µg/mL	Unstressed
	Purity 99%		+/-	2,664.2075	µg/mL	Stressed
7	1,4-Difluorobenzene	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 540-36-3.SEC (Lot FA008832)		+/-	106.5540	µg/mL	Unstressed
	Purity 99%		+/-	106.6715	µg/mL	Stressed
8	Ethyl acrylate	2,000.0 µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 140-88-5.SEC (Lot YIFAM-TG)		+/-	106.4475	µg/mL	Unstressed
	Purity 99%		+/-	106.5649	µg/mL	Stressed

9	Methyl methacrylate		4,002.5	µg/mL	+/-	23.4889	µg/mL	Gravimetric
	CAS #	80-62-6.SEC (Lot G01X021)			+/-	213.0282	µg/mL	Unstressed
	Purity	99%			+/-	213.2630	µg/mL	Stressed
10	2-Nitropropane		4,002.3	µg/mL	+/-	23.4879	µg/mL	Gravimetric
	CAS #	79-46-9.SEC (Lot HNDGC-TG)			+/-	213.0186	µg/mL	Unstressed
	Purity	98%			+/-	213.2534	µg/mL	Stressed
11	Butyl acetate		2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS #	123-86-4.SEC (Lot V2L2G-GT)			+/-	106.6604	µg/mL	Unstressed
	Purity	99%			+/-	106.7780	µg/mL	Stressed
12	1-Chlorohexane		2,001.2	µg/mL	+/-	11.7439	µg/mL	Gravimetric
	CAS #	544-10-5.SEC (Lot 1376600)			+/-	106.5093	µg/mL	Unstressed
	Purity	98%			+/-	106.6267	µg/mL	Stressed
13	1,2,3-Trimethylbenzene		2,005.0	µg/mL	+/-	11.7665	µg/mL	Gravimetric
	CAS #	526-73-8.SEC (Lot 487800)			+/-	106.7137	µg/mL	Unstressed
	Purity	99%			+/-	106.8313	µg/mL	Stressed
14	Benzyl chloride		2,002.5	µg/mL	+/-	11.7518	µg/mL	Gravimetric
	CAS #	100-44-7.SEC (Lot H29N03)			+/-	106.5806	µg/mL	Unstressed
	Purity	99%			+/-	106.6981	µg/mL	Stressed
15	1,3,5-Trichlorobenzene		2,001.0	µg/mL	+/-	11.7430	µg/mL	Gravimetric
	CAS #	108-70-3.SEC (Lot I28U021)			+/-	106.5008	µg/mL	Unstressed
	Purity	99%			+/-	106.6182	µg/mL	Stressed
<b>Solvent:</b>	P&T Methanol							
	CAS #	67-56-1						
	Purity	99%						

\* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.



CERTIFIED REFERENCE MATERIAL

Rec: 6/6/14



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

# Certificate of Analysis



www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 568723 Lot No.: A099930

Description : 8260 List 3/ Std#1 Polar Additions  
8260 List 3/ Std#1 Polar Additions 2,000-100,000 µg/ml, 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : December 31, 2015 Storage: 0°C or colder

## CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Ethanol	100,255.6 µg/mL	+/-	586.9883	µg/mL	Gravimetric
	CAS # 64-17-5 (Lot SHBC8676V)		+/-	3,493.5733	µg/mL	Unstressed
	Purity 99%		+/-	3,613.2792	µg/mL	Stressed
2	Acetonitrile	20,015.9 µg/mL	+/-	117.1976	µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBB3177V)		+/-	697.4888	µg/mL	Unstressed
	Purity 98%		+/-	721.3879	µg/mL	Stressed
3	Diisopropyl ether (DIPE)	2,001.6 µg/mL	+/-	11.7465	µg/mL	Gravimetric
	CAS # 108-20-3 (Lot SHBB6268V)		+/-	69.7537	µg/mL	Unstressed
	Purity 99%		+/-	72.1435	µg/mL	Stressed
4	Ethyl-tert-butyl ether (ETBE)	2,008.4 µg/mL	+/-	11.7864	µg/mL	Gravimetric
	CAS # 637-92-3 (Lot MKBP5984V)		+/-	69.9907	µg/mL	Unstressed
	Purity 99%		+/-	72.3885	µg/mL	Stressed
5	Propionitrile	20,039.6 µg/mL	+/-	117.3363	µg/mL	Gravimetric
	CAS # 107-12-0 (Lot BCBK0700V)		+/-	698.3142	µg/mL	Unstressed
	Purity 99%		+/-	722.2416	µg/mL	Stressed
6	tert-Amyl alcohol	20,035.2 µg/mL	+/-	117.3105	µg/mL	Gravimetric
	CAS # 75-85-4 (Lot STBB1898V)		+/-	698.1609	µg/mL	Unstressed
	Purity 99%		+/-	722.0831	µg/mL	Stressed
7	tert-Amyl methyl ether (TAME)	2,005.6 µg/mL	+/-	11.7700	µg/mL	Gravimetric
	CAS # 994-05-8 (Lot OS1028/4V)		+/-	69.8931	µg/mL	Unstressed
	Purity 99%		+/-	72.2876	µg/mL	Stressed

VM 568 723<sub>s</sub>-00001

Rec: 8/4/2014



CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
 Bellefonte, PA 16823-8812  
 Tel: (800)356-1688  
 Fax: (814)353-1309

Certificate of Analysis



www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568723.SEC Lot No.: A0102749  
 Description : 8260 List 3/ Std#1 Polar Additions  
8260 List 3/ Std#1 Polar Additions 2,000-100,000 µg/ml, 1 ml/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : April 30, 2016 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethanol		100,034.0 µg/mL	+/-	585.6909	µg/mL Gravimetric
	CAS #	64-17-5.SEC (Lot PG0219SEC)		+/-	3,485.8513	µg/mL Unstressed
	Purity	99%		+/-	3,605.2926	µg/mL Stressed
2	Acetonitrile		20,021.0 µg/mL	+/-	117.2274	µg/mL Gravimetric
	CAS #	75-05-8.SEC (Lot FGF01)		+/-	697.6661	µg/mL Unstressed
	Purity	99%		+/-	721.5713	µg/mL Stressed
3	Diisopropyl ether (DIPE)		2,005.1 µg/mL	+/-	11.7669	µg/mL Gravimetric
	CAS #	108-20-3.SEC (Lot LL7TN-SH)		+/-	69.8750	µg/mL Unstressed
	Purity	98%		+/-	72.2689	µg/mL Stressed
4	Ethyl-tert-butyl ether (ETBE)		2,004.0 µg/mL	+/-	11.7606	µg/mL Gravimetric
	CAS #	637-92-3.SEC (Lot MHBjG-QK)		+/-	69.8373	µg/mL Unstressed
	Purity	99%		+/-	72.2300	µg/mL Stressed
5	Propionitrile		20,044.0 µg/mL	+/-	117.3620	µg/mL Gravimetric
	CAS #	107-12-0.SEC (Lot RTXQL)		+/-	698.4676	µg/mL Unstressed
	Purity	99%		+/-	722.4002	µg/mL Stressed
6	tert-Amyl alcohol		20,074.0 µg/mL	+/-	117.5377	µg/mL Gravimetric
	CAS #	75-85-4.SEC (Lot REJPI)		+/-	699.5130	µg/mL Unstressed
	Purity	99%		+/-	723.4814	µg/mL Stressed
7	tert-Amyl methyl ether (TAME)		2,003.0 µg/mL	+/-	11.7547	µg/mL Gravimetric
	CAS #	994-05-8.SEC (Lot 1195200)		+/-	69.8025	µg/mL Unstressed
	Purity	99%		+/-	72.1939	µg/mL Stressed

# Certification Summary

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-44867-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method 8260B

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Volatile Organic Compounds (GC/MS)  
by Method 8260B

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
EFFLUENT/112514	240-44867-1	105	98	99	93
EFFLUENT/112514 RA	240-44867-1 RA	102	104	99	101
TB01/112514	240-44867-2	97	104	97	97
	MB 240-159290/6	97	102	94	98
	LCS 240-159290/4	101	102	101	103

DBFM = Dibromofluoromethane (Surr)  
DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS  
75-121  
63-129  
74-120  
66-120

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM0016.D  
 Lab ID: LCS 240-159290/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	18.1	91	43-136	
Acrolein	50.0	96.7	193	51-170	*
Acrylonitrile	100	105	105	66-132	
Benzene	10.0	10.4	104	80-120	
Bromodichloromethane	10.0	10.3	103	72-121	
Bromoform	10.0	9.61	96	40-131	
Bromomethane	10.0	9.10	91	11-185	
2-Butanone	20.0	18.7	94	60-126	
Carbon disulfide	10.0	10.2	102	62-142	
Carbon tetrachloride	10.0	10.7	107	66-128	
Chlorobenzene	10.0	10.0	100	80-120	
Chloroethane	10.0	9.36	94	25-153	
Chloroform	10.0	10.8	108	79-120	
Chloromethane	10.0	10.9	109	44-126	
3-Chloro-1-propene	10.0	9.17	92	40-160	
cis-1,2-Dichloroethene	10.0	10.5	105	80-120	
cis-1,3-Dichloropropene	10.0	10.4	104	61-120	
Dibromochloromethane	10.0	9.86	99	64-120	
1,2-Dibromo-3-Chloropropane	10.0	8.55	86	42-136	
Dibromomethane	10.0	10.3	103	80-120	
Dichlorodifluoromethane	10.0	8.18	82	19-129	
1,1-Dichloroethane	10.0	11.0	110	80-120	
1,2-Dichloroethane	10.0	11.1	111	71-127	
1,1-Dichloroethene	10.0	10.3	103	78-131	
1,2-Dichloroethene, Total	20.0	21.2	106	80-120	
1,2-Dichloropropane	10.0	10.7	107	80-120	
1,4-Dioxane	200	209	104	50-150	
Ethylbenzene	10.0	10.7	107	80-120	
Ethylene Dibromide	10.0	10.3	103	79-120	
Ethyl methacrylate	10.0	10.9	109	40-160	
2-Hexanone	20.0	21.0	105	55-133	
Iodomethane	10.0	11.3	113	72-141	
Isobutanol	250	261	104	40-160	
Methylene Chloride	10.0	10.8	108	66-131	
4-Methyl-2-pentanone (MIBK)	20.0	20.0	100	63-128	
m-Xylene & p-Xylene	10.0	10.5	105	80-120	
o-Xylene	10.0	10.6	106	80-120	
Styrene	10.0	10.2	102	79-120	
1,1,1,2-Tetrachloroethane	10.0	10.2	102	72-120	
1,1,2,2-Tetrachloroethane	10.0	9.09	91	68-120	
Tetrachloroethene	10.0	10.5	105	79-120	
Toluene	10.0	10.4	104	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM0016.D  
 Lab ID: LCS 240-159290/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,4-Dichloro-2-butene	10.0	7.57	76	10-199	
trans-1,2-Dichloroethene	10.0	10.7	107	80-120	
trans-1,3-Dichloropropene	10.0	10.6	106	58-120	
1,1,1-Trichloroethane	10.0	10.5	105	74-120	
1,1,2-Trichloroethane	10.0	9.98	100	80-120	
Trichloroethene	10.0	10.3	103	76-120	
Trichlorofluoromethane	10.0	10.3	103	49-157	
1,2,3-Trichloropropane	10.0	9.24	92	73-129	
Vinyl acetate	8.00	3.62	45	46-161	*
Vinyl chloride	10.0	10.6	106	53-127	
Xylenes, Total	20.0	21.1	106	80-120	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: UXM0018.D Lab Sample ID: MB 240-159290/6  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: A3UX16 Date Analyzed: 12/03/2014 10:04  
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-159290/4	UXM0016.D	12/03/2014 09:19
TB01/112514	240-44867-2	UXM0023.D	12/03/2014 11:56
EFFLUENT/112514 RA	240-44867-1 RA	UXM0025.D	12/03/2014 12:58

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: BFB4131.D BFB Injection Date: 11/28/2014  
 Instrument ID: A3UX16 BFB Injection Time: 10:53  
 Analysis Batch No.: 158775

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	24.2
75	30.0 - 60.0 % of mass 95	48.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	91.1
175	5.0 - 9.0 % of mass 174	6.0 (6.6)1
176	95.0 - 101.0 % of mass 174	87.0 (95.5)1
177	5.0 - 9.0 % of mass 176	5.2 (5.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-158775/2	UXM9937.D	11/28/2014	11:29
	STD8260 240-158775/3	UXM9938.D	11/28/2014	11:52
	STD8260 240-158775/4	UXM9939.D	11/28/2014	12:14
	STD8260 240-158775/5	UXM9940.D	11/28/2014	12:36
	STD8260 240-158775/6	UXM9941.D	11/28/2014	12:59
	STD8260 240-158775/7	UXM9942.D	11/28/2014	13:21
	ICV 240-158775/8	UXM9943.D	11/28/2014	13:44
	STDA9 240-158775/9	UXM9944.D	11/28/2014	14:23
	STDA9 240-158775/10	UXM9945.D	11/28/2014	14:45
	STDA9 240-158775/11	UXM9946.D	11/28/2014	15:08
	STDA9 240-158775/12	UXM9947.D	11/28/2014	15:31
	STDA9 240-158775/13	UXM9948.D	11/28/2014	15:53
	STDA9 240-158775/14	UXM9949.D	11/28/2014	16:16
	ICV 240-158775/15	UXM9950.D	11/28/2014	16:38

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: BFB4135.D BFB Injection Date: 12/03/2014  
 Instrument ID: A3UX16 BFB Injection Time: 08:01  
 Analysis Batch No.: 159290

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	24.5
75	30.0 - 60.0 % of mass 95	51.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.2
173	Less than 2.0 % of mass 174	0.6 (0.7)1
174	50.0 - 120.00 % of mass 95	91.1
175	5.0 - 9.0 % of mass 174	7.0 (7.6)1
176	95.0 - 101.0 % of mass 174	90.4 (99.3)1
177	5.0 - 9.0 % of mass 176	6.0 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-159290/2	UXM0014.D	12/03/2014	08:34
	CCV 240-159290/3	UXM0015.D	12/03/2014	08:57
	LCS 240-159290/4	UXM0016.D	12/03/2014	09:19
	MB 240-159290/6	UXM0018.D	12/03/2014	10:04
TB01/112514	240-44867-2	UXM0023.D	12/03/2014	11:56
EFFLUENT/112514 RA	240-44867-1 RA	UXM0025.D	12/03/2014	12:58

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: \_\_\_\_\_ BFB Injection Date: \_\_\_\_\_  
 Instrument ID: \_\_\_\_\_ BFB Injection Time: \_\_\_\_\_  
 Lab File ID: \_\_\_\_\_ DFTPP Injection Date: \_\_\_\_\_  
 Instrument ID: \_\_\_\_\_ DFTPP Injection Time: \_\_\_\_\_  
 Analysis Batch No.: \_\_\_\_\_

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
EFFLUENT/112514	240-44867-1	UXR7735.D	12/02/2014	19:55

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: BFB389.D BFB Injection Date: 11/28/2014  
 Instrument ID: A3UX17 BFB Injection Time: 08:38  
 Analysis Batch No.: 158763

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.6
75	30.0 - 60.0 % of mass 95	48.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.5 (0.6)1
174	50.0 - 120.00 % of mass 95	81.7
175	5.0 - 9.0 % of mass 174	5.2 (6.4)1
176	95.0 - 101.0 % of mass 174	78.5 (96.1)1
177	5.0 - 9.0 % of mass 176	5.0 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-158763/2	UXR7657.D	11/28/2014	09:44
	STD8260 240-158763/3	UXR7658.D	11/28/2014	10:07
	STD8260 240-158763/4	UXR7659.D	11/28/2014	10:29
	STD8260 240-158763/5	UXR7660.D	11/28/2014	10:52
	STD8260 240-158763/6	UXR7661.D	11/28/2014	11:14
	STD8260 240-158763/7	UXR7662.D	11/28/2014	11:36

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: BFB390.D BFB Injection Date: 11/28/2014  
 Instrument ID: A3UX17 BFB Injection Time: 17:19  
 Analysis Batch No.: 158831

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.9
75	30.0 - 60.0 % of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	0.7 (0.9)1
174	50.0 - 120.00 % of mass 95	79.5
175	5.0 - 9.0 % of mass 174	5.9 (7.4)1
176	95.0 - 101.0 % of mass 174	77.0 (96.8)1
177	5.0 - 9.0 % of mass 176	4.6 (6.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STDA9 240-158831/2	UXR7675.D	11/28/2014	18:03
	STDA9 240-158831/3	UXR7676.D	11/28/2014	18:26
	STDA9 240-158831/4	UXR7677.D	11/28/2014	18:48
	STDA9 240-158831/5	UXR7678.D	11/28/2014	19:11
	STDA9 240-158831/6	UXR7679.D	11/28/2014	19:33
	STDA9 240-158831/7	UXR7680.D	11/28/2014	19:56

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: STD8260 240-158775/4 Date Analyzed: 11/28/2014 12:14  
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UXM9939.D Heated Purge: (Y/N) N  
 Calibration ID: 25575

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1517068	5.59	1053909	8.28	581948	10.51
UPPER LIMIT	3034136	6.09	2107818	8.78	1163896	11.01
LOWER LIMIT	758534	5.09	526955	7.78	290974	10.01
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-158775/8	1406641	5.59	1006700	8.28	554267	10.51
ICV 240-158775/15	1399912	5.59	1021600	8.28	533586	10.51
CCVIS 240-159290/2	1404012	5.59	1024329	8.28	575742	10.51

FB = Fluorobenzene  
 CBZ = Chlorobenzene-d5  
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 240-159290/2 Date Analyzed: 12/03/2014 08:34  
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UXM0014.D Heated Purge: (Y/N) N  
 Calibration ID: 25578

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1404012	5.59	1024329	8.28	575742	10.51	
UPPER LIMIT	2808024	6.09	2048658	8.78	1151484	11.01	
LOWER LIMIT	702006	5.09	512165	7.78	287871	10.01	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-159290/3	1334683	5.59	985785	8.28	539431	10.51	
LCS 240-159290/4	1353953	5.59	981497	8.28	585325	10.51	
MB 240-159290/6	1327924	5.59	989949	8.28	549399	10.51	
240-44867-2	TB01/112514	1314199	5.59	999556	8.28	515445	10.51
240-44867-1 RA	EFFLUENT/112514 RA	1275405	5.59	949159	8.28	528580	10.51

FB = Fluorobenzene  
 CBZ = Chlorobenzene-d5  
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EFFLUENT/112514 Lab Sample ID: 240-44867-1  
 Matrix: Water Lab File ID: UXR7735.D  
 Analysis Method: 8260B Date Collected: 11/25/2014 10:25  
 Sample wt/vol: 5(mL) Date Analyzed: 12/02/2014 19:55  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159122 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	960	E	10	3.4
75-05-8	Acetonitrile	ND		20	9.2
107-02-8	Acrolein	ND		20	1.4
107-13-1	Acrylonitrile	ND		20	6.3
71-43-2	Benzene	9.6		1.0	0.24
75-27-4	Bromodichloromethane	ND		1.0	0.15
75-25-2	Bromoform	1.4		1.0	0.56
74-83-9	Bromomethane	ND		1.0	0.63
78-93-3	2-Butanone	120	E	10	4.1
75-15-0	Carbon disulfide	ND		1.0	0.28
56-23-5	Carbon tetrachloride	0.48	J	1.0	0.17
108-90-7	Chlorobenzene	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.33
67-66-3	Chloroform	9.4		1.0	0.21
74-87-3	Chloromethane	ND		1.0	0.44
126-99-8	Chloroprene	ND		2.0	0.26
107-05-1	3-Chloro-1-propene	ND		2.0	0.84
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
124-48-1	Dibromochloromethane	ND		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.82
74-95-3	Dibromomethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.50
75-34-3	1,1-Dichloroethane	24		1.0	0.26
107-06-2	1,2-Dichloroethane	11		1.0	0.20
75-35-4	1,1-Dichloroethene	ND		1.0	0.45
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.22
123-91-1	1,4-Dioxane	160		50	40
100-41-4	Ethylbenzene	0.33	J	1.0	0.23
106-93-4	Ethylene Dibromide	ND		1.0	0.19
97-63-2	Ethyl methacrylate	ND		1.0	0.44
591-78-6	2-Hexanone	ND		10	3.9
74-88-4	Iodomethane	ND		1.0	0.42
78-83-1	Isobutanol	ND		50	12
126-98-7	Methacrylonitrile	ND		2.0	0.70

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EFFLUENT/112514 Lab Sample ID: 240-44867-1  
 Matrix: Water Lab File ID: UXR7735.D  
 Analysis Method: 8260B Date Collected: 11/25/2014 10:25  
 Sample wt/vol: 5(mL) Date Analyzed: 12/02/2014 19:55  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159122 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-09-2	Methylene Chloride	ND		1.0	0.28
80-62-6	Methyl methacrylate	ND		2.0	0.99
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	3.6
107-12-0	Propionitrile	ND		4.0	0.95
100-42-5	Styrene	ND		1.0	0.45
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	5.6		1.0	0.22
127-18-4	Tetrachloroethene	0.37	J	1.0	0.20
108-88-3	Toluene	ND		1.0	0.22
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	0.31
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.56
71-55-6	1,1,1-Trichloroethane	3.4		1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.7		1.0	0.17
79-01-6	Trichloroethene	0.20	J	1.0	0.15
75-69-4	Trichlorofluoromethane	ND		1.0	0.49
96-18-4	1,2,3-Trichloropropane	ND		1.0	0.30
108-05-4	Vinyl acetate	ND		2.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.29
1330-20-7	Xylenes, Total	ND		2.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		66-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-129
2037-26-5	Toluene-d8 (Surr)	99		74-120

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D  
 Lims ID: 240-44867-B-1 Lab Sample ID: 240-44867-1  
 Client ID: EFFLUENT/112514  
 Sample Type: Client  
 Inject. Date: 02-Dec-2014 19:55:30 ALS Bottle#: 26 Worklist Smp#: 27  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038076-027  
 Operator ID: 1904 Instrument ID: A3UX17  
 Method: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 13:17:35 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: quayler

Date: 03-Dec-2014 08:42:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1448436	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	88	979739	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	496760	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	94	347372	10.3	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	416475	9.56	
\$ 6 Toluene-d8 (Surr)	98	7.151	7.139	0.012	94	1321169	9.73	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	89	445195	9.07	
9 Dichlorodifluoromethane	85		1.648				ND	
10 Chloromethane	50	1.814	1.815	0.000	98	21308	0.3053	
11 Vinyl chloride	62		1.933				ND	
12 Bromomethane	94	2.289	2.301	-0.012	66	7334	0.2932	
13 Chloroethane	64		2.396				ND	
15 Trichlorofluoromethane	101		2.656				ND	
18 Acrolein	56		3.083				ND	
19 1,1-Dichloroethene	96		3.166				ND	
21 Acetone	43	3.226	3.226	0.000	99	9916911	955.3	E
22 Iodomethane	142		3.321				ND	
23 Carbon disulfide	76	3.380	3.380	0.000	99	17645	0.1658	
24 Acetonitrile	41	3.510	3.510	0.000	97	18816	3.92	
25 3-Chloro-1-propene	76		3.510				ND	
27 Methylene Chloride	84		3.629				ND	
29 Acrylonitrile	53		3.866				ND	
31 trans-1,2-Dichloroethene	96		3.878				ND	
33 1,1-Dichloroethane	63	4.257	4.257	0.000	96	1835187	24.3	
34 Vinyl acetate	43		4.293				ND	
36 2-Chloro-1,3-butadiene	53		4.340				ND	
39 cis-1,2-Dichloroethene	96		4.767				ND	
40 2-Butanone (MEK)	43	4.791	4.779	0.012	90	1612063	118.7	EM
42 Propionitrile	54		4.850				ND	
43 Methacrylonitrile	41		4.969				ND	
46 Chloroform	83	5.040	5.040	0.000	95	650112	9.42	
47 1,1,1-Trichloroethane	97	5.206	5.206	0.000	96	180469	3.43	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 Carbon tetrachloride	117	5.348	5.348	0.000	97	20687	0.4832	
51 Isobutyl alcohol	41		5.419				ND	
52 Benzene	78	5.526	5.526	0.000	97	1642155	9.63	
53 1,2-Dichloroethane	62	5.550	5.550	0.000	97	578661	11.2	
57 Trichloroethene	130	6.083	6.084	-0.001	90	7840	0.1984	
60 1,2-Dichloropropane	63		6.285				ND	
61 Methyl methacrylate	41		6.356				ND	
62 Dibromomethane	93		6.392				ND	
63 1,4-Dioxane	88	6.392	6.392	0.000	96	37697	159.5	
64 Dichlorobromomethane	83		6.510				ND	
67 cis-1,3-Dichloropropene	75		6.902				ND	
68 4-Methyl-2-pentanone (MIBK)	43		7.032				ND	
69 Toluene	91		7.198				ND	
70 trans-1,3-Dichloropropene	75		7.400				ND	
71 Ethyl methacrylate	69		7.447				ND	
72 1,1,2-Trichloroethane	97	7.566	7.566	0.000	93	46170	1.68	
73 Tetrachloroethene	164	7.696	7.696	0.000	95	11094	0.3690	
76 2-Hexanone	43		7.779				ND	
78 Chlorodibromomethane	129		7.933				ND	
79 Ethylene Dibromide	107		8.052				ND	
81 Chlorobenzene	112		8.503				ND	
82 1,1,1,2-Tetrachloroethane	131		8.574				ND	
83 Ethylbenzene	106	8.586	8.586	0.000	99	17965	0.3287	
84 m-Xylene & p-Xylene	106		8.692				ND	
85 o-Xylene	106		9.084				ND	
86 Styrene	104		9.096				ND	
87 Bromoform	173	9.285	9.285	0.000	87	14929	1.38	
91 1,1,2,2-Tetrachloroethane	83	9.724	9.712	0.012	96	173816	5.57	
93 trans-1,4-Dichloro-2-buten	53		9.772				ND	
94 1,2,3-Trichloropropane	110		9.772				ND	
111 1,2-Dibromo-3-Chloropropan	157		11.906				ND	
S 128 1,2-Dichloroethene, Total	96		1.140				ND	
S 130 Xylenes, Total	106		16.530				ND	

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

#### Review Flags

M - Manually Integrated

### Reagents:

VM50IS_00044	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00062	Amount Added: 0.98	Units: uL	Run Reagent
vmDist_H2o_00040	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Worklist Smp#: 27

Client ID: EFFLUENT/112514

Purge Vol: 5.000 mL

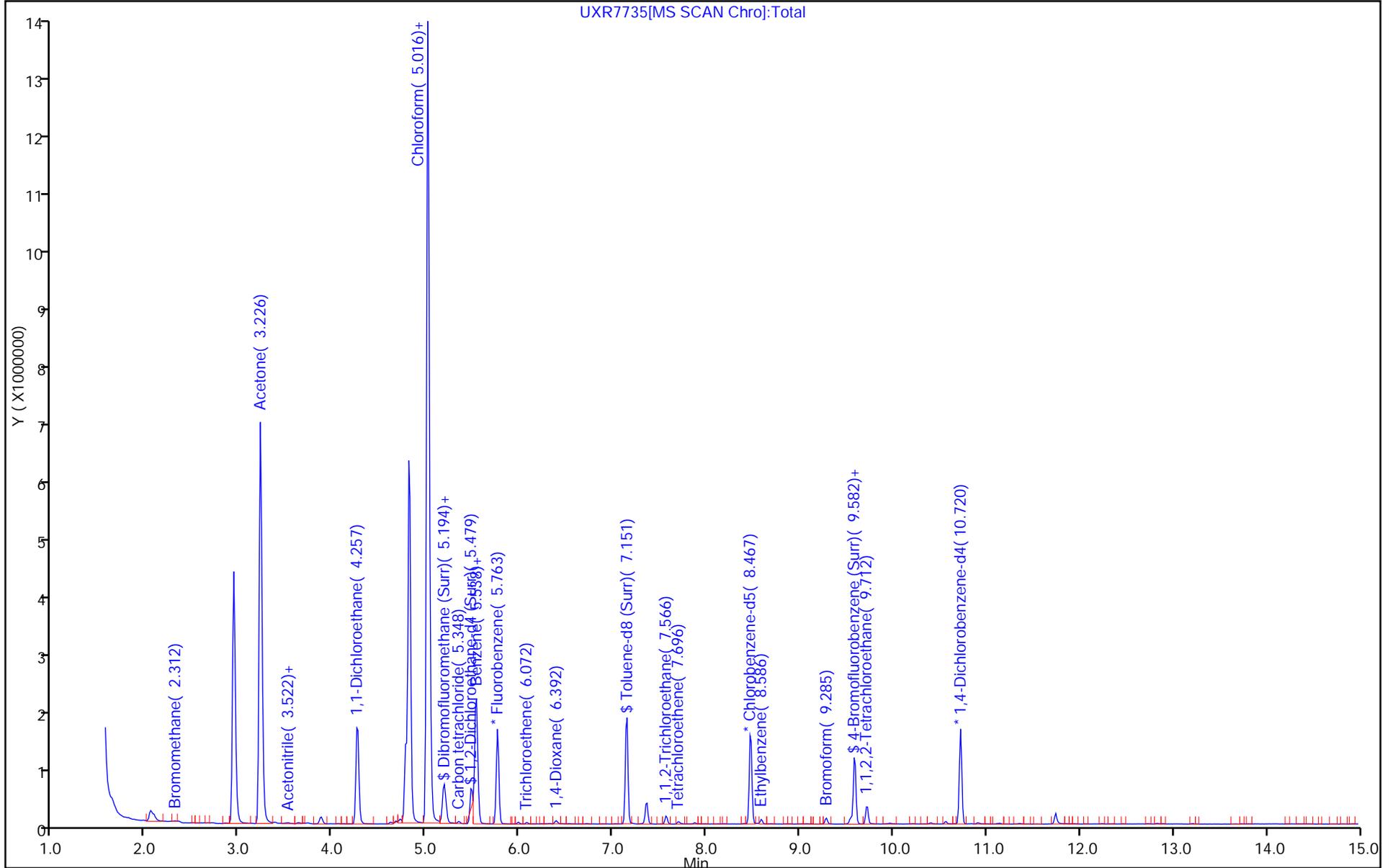
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

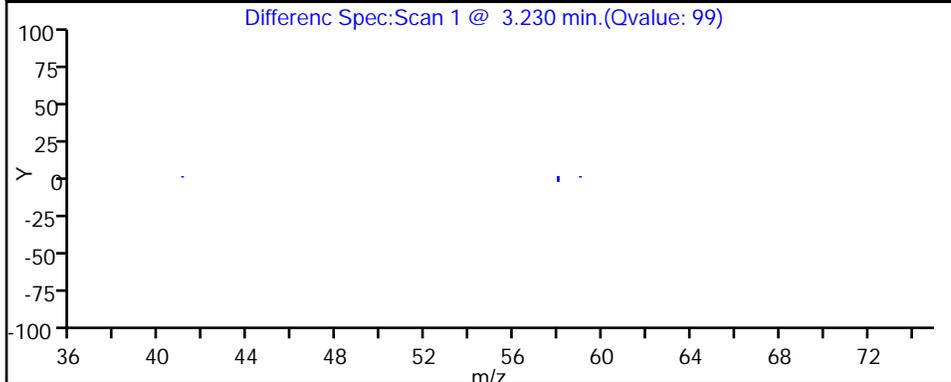
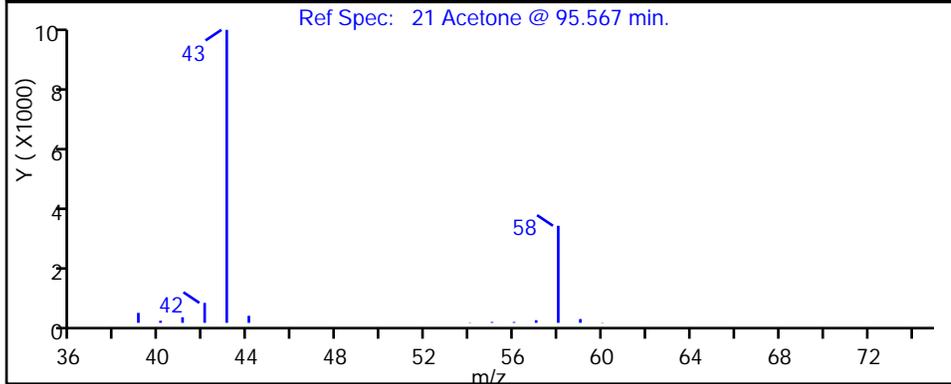
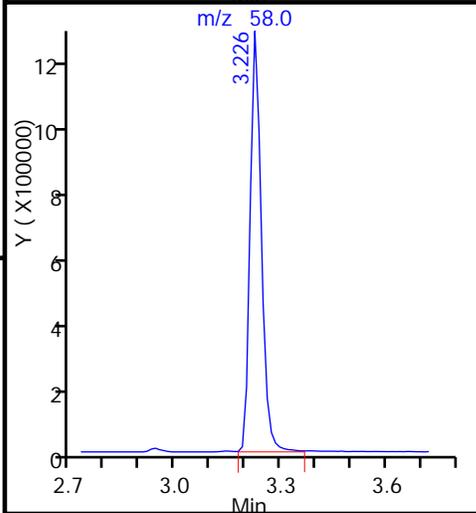
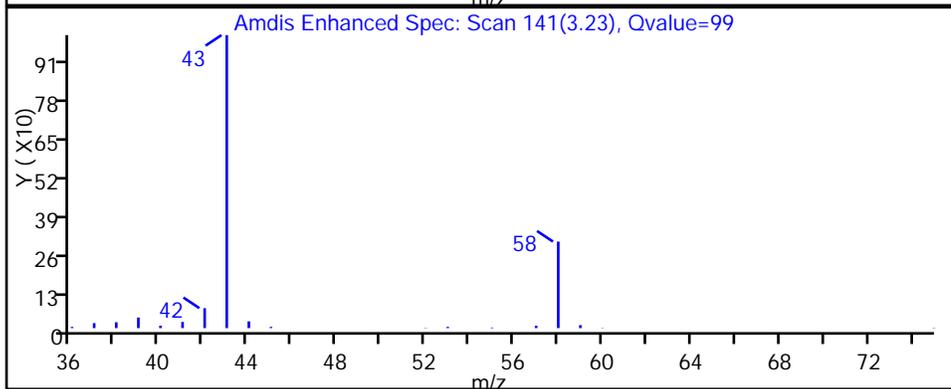
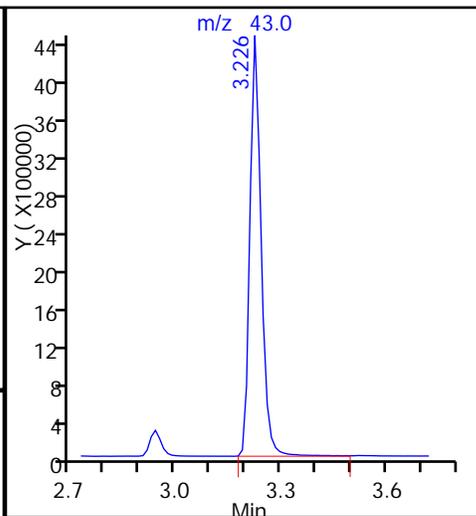
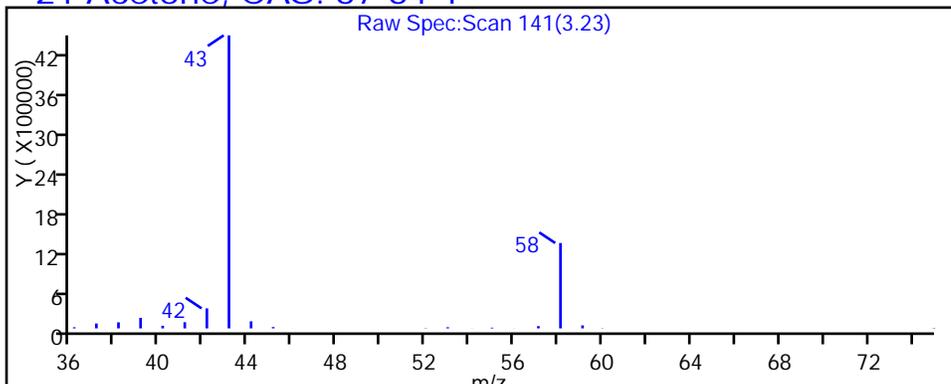
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

21 Acetone, CAS: 67-64-1



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

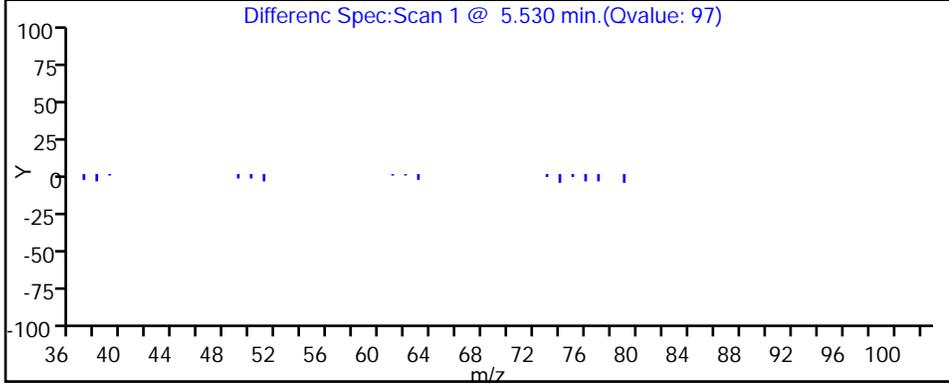
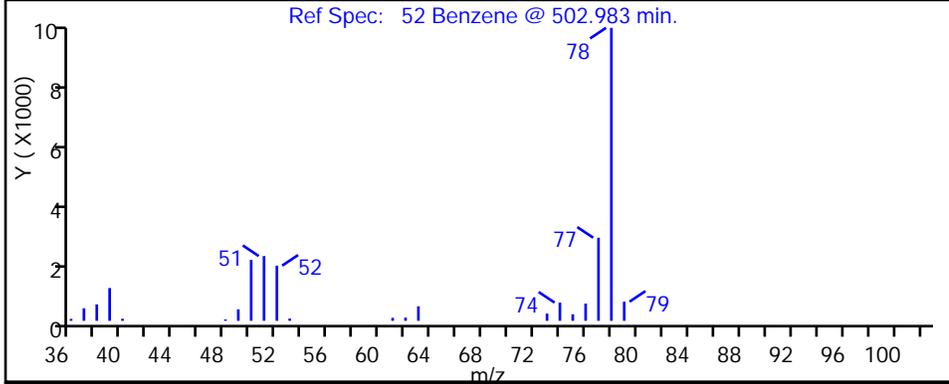
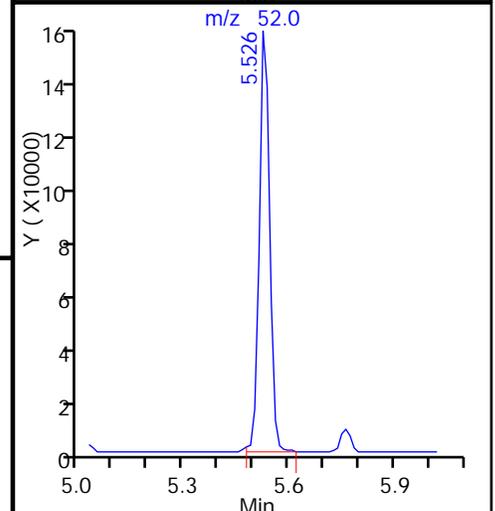
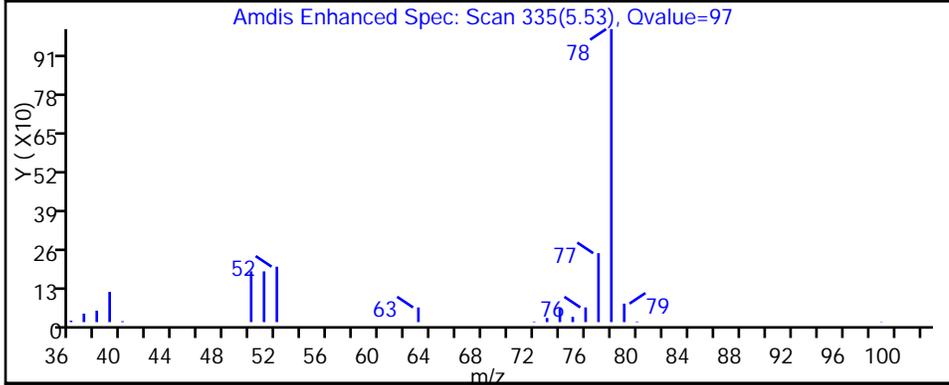
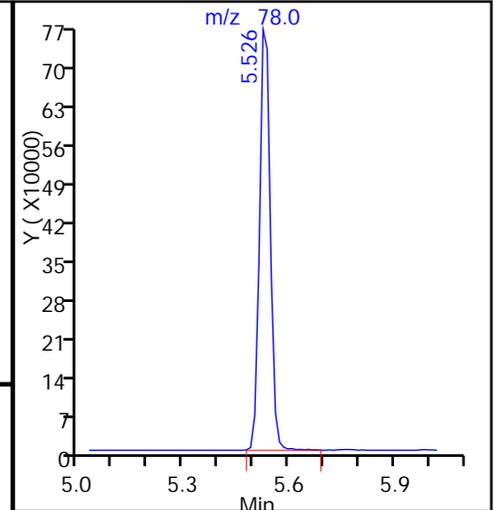
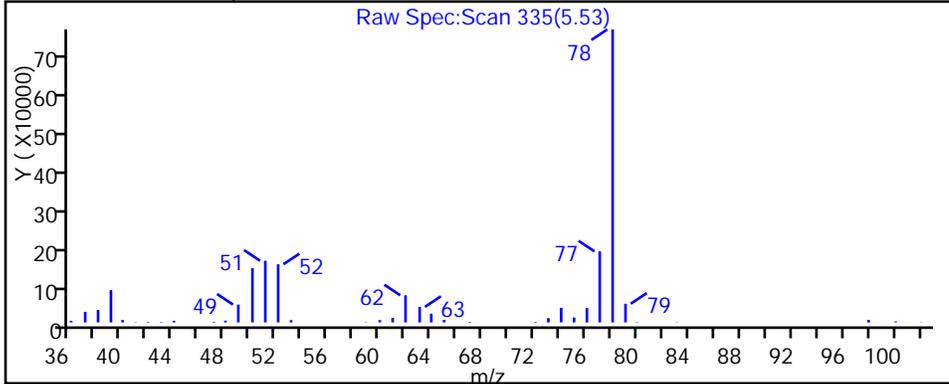
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

52 Benzene, CAS: 71-43-2



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

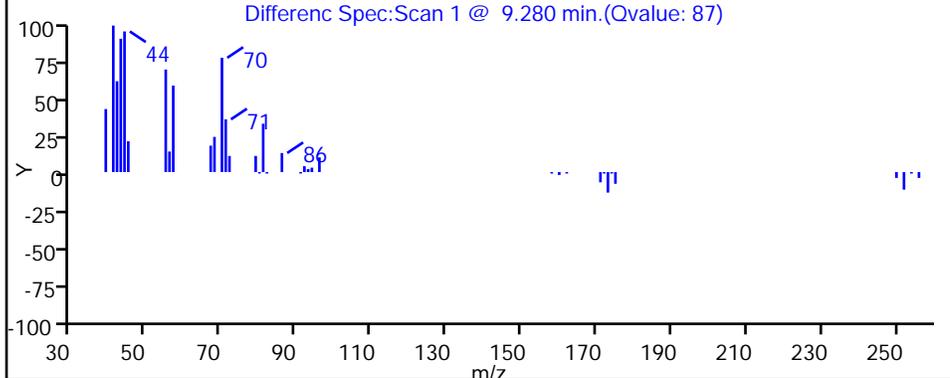
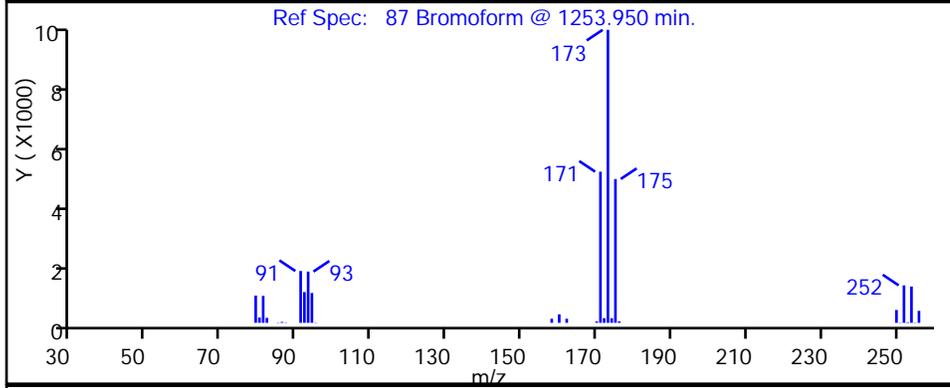
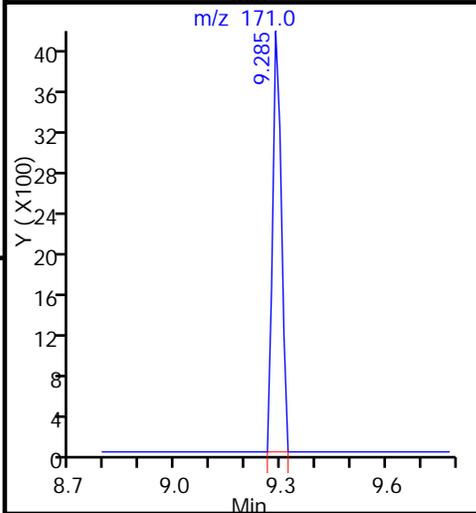
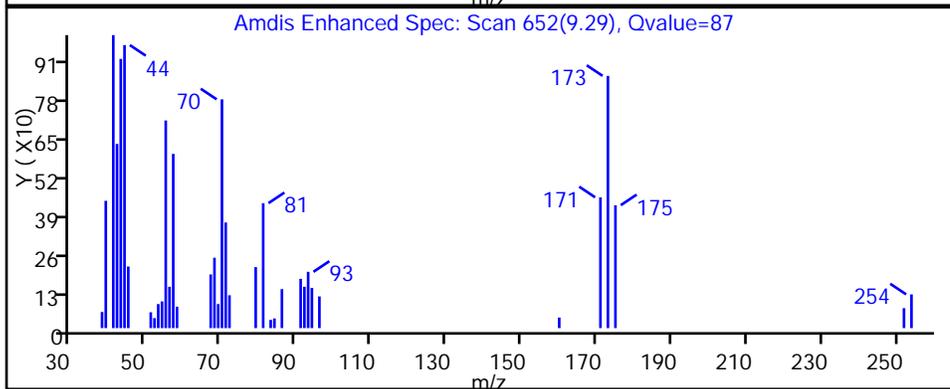
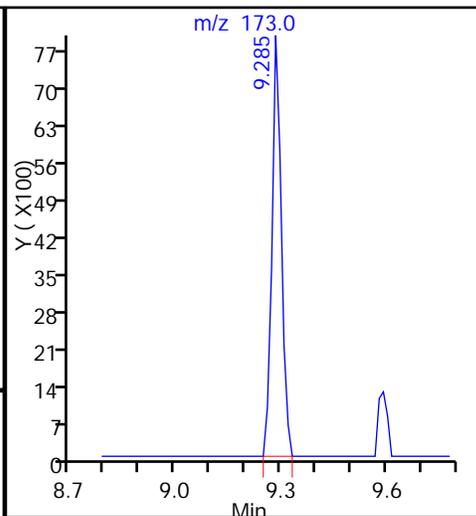
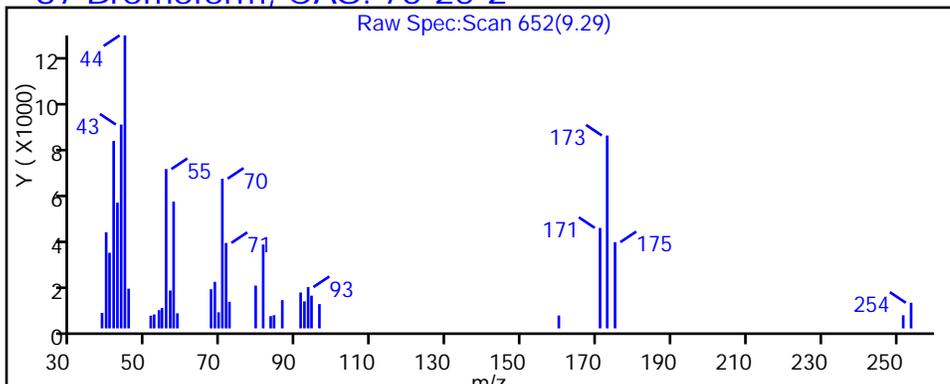
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

87 Bromoform, CAS: 75-25-2



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

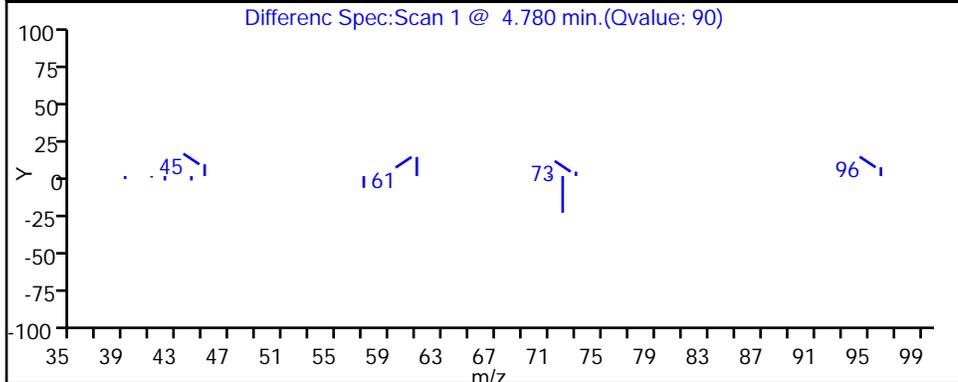
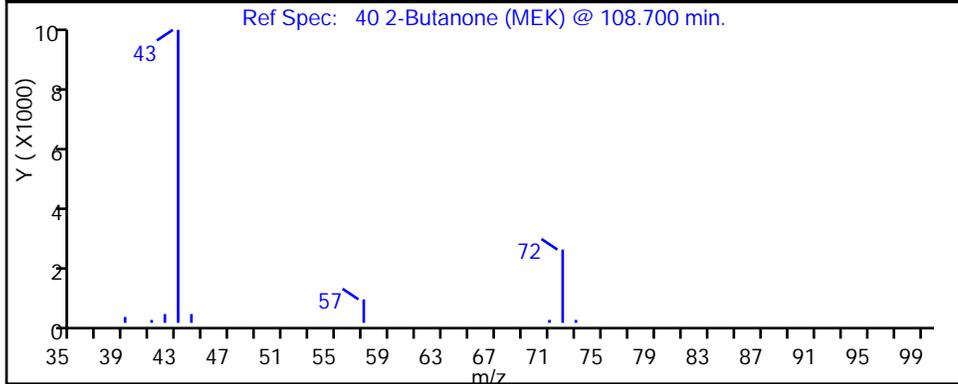
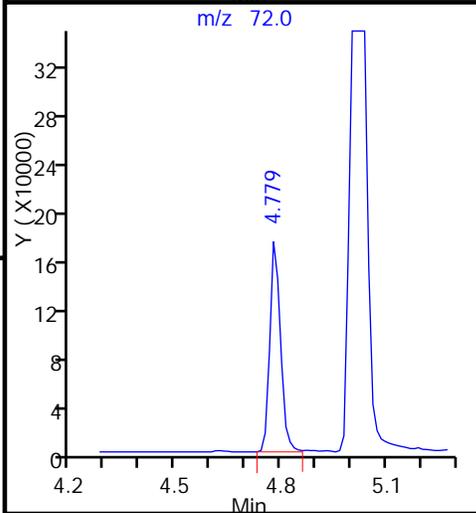
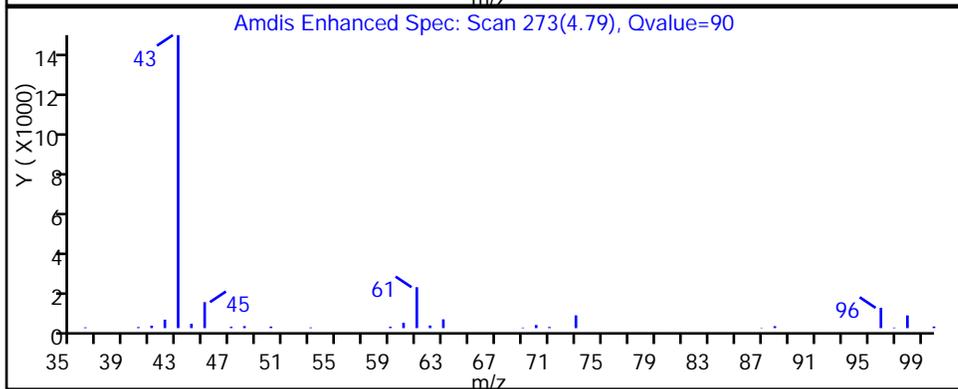
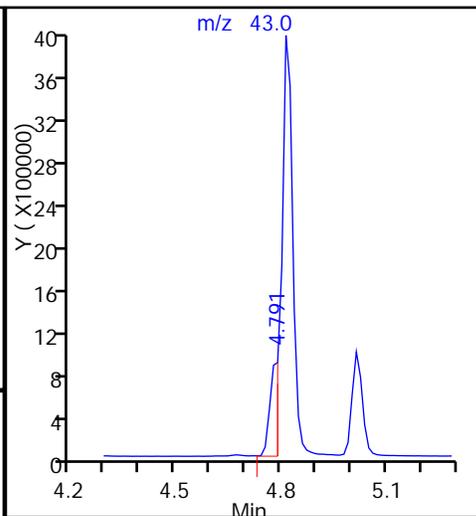
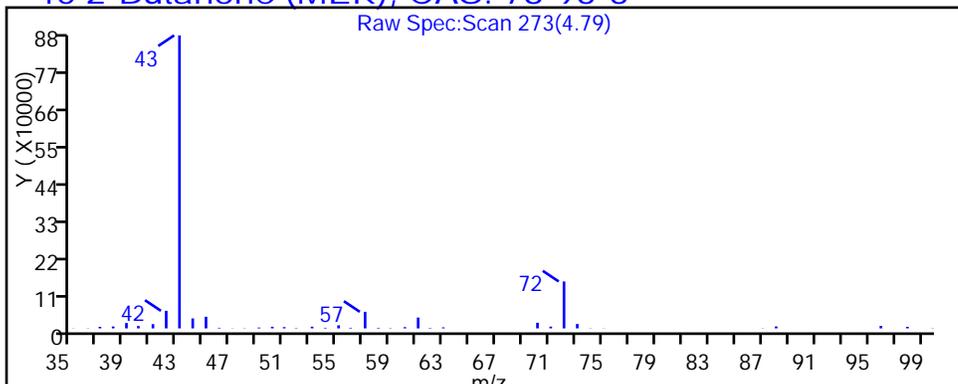
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 40 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

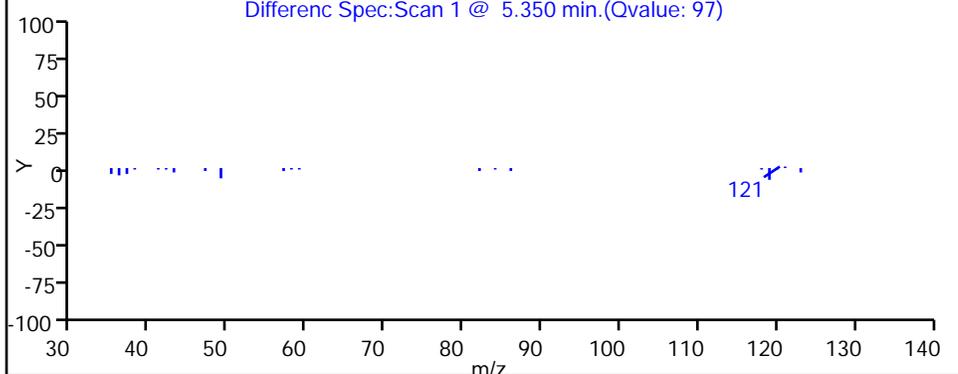
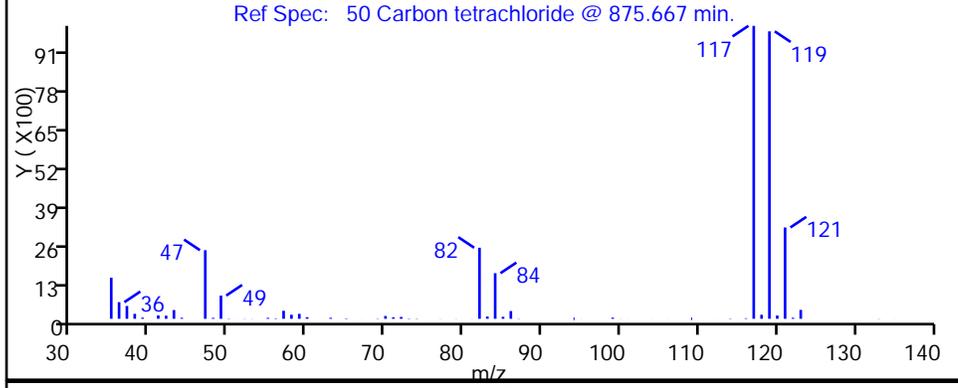
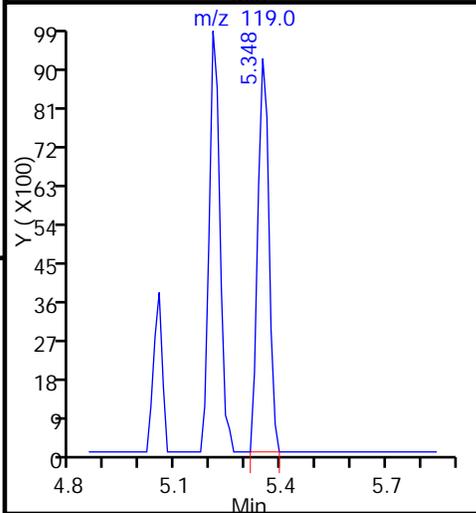
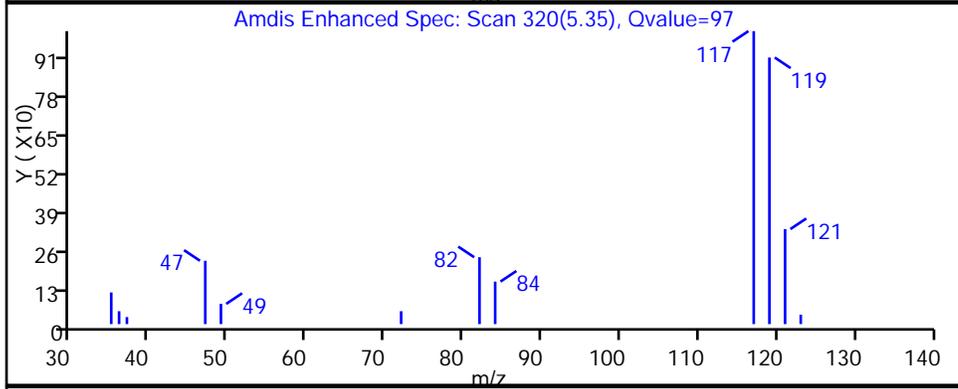
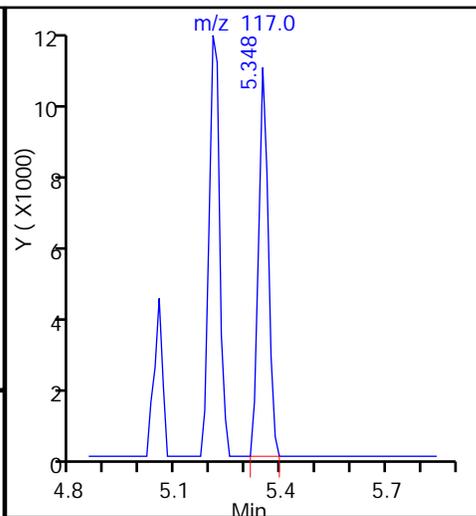
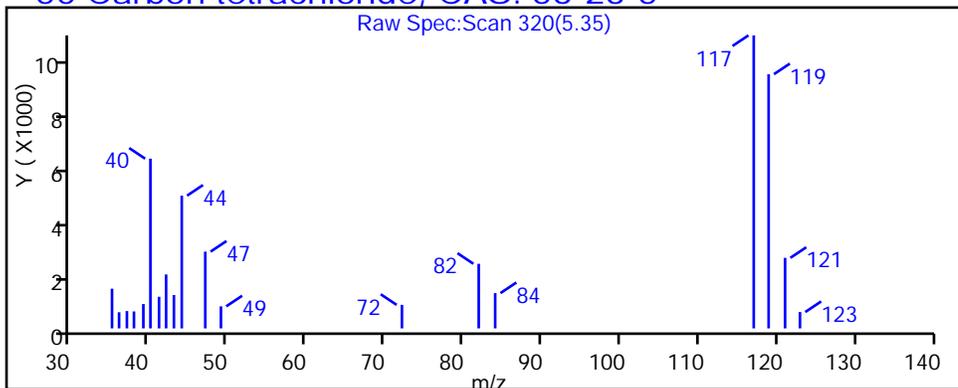
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

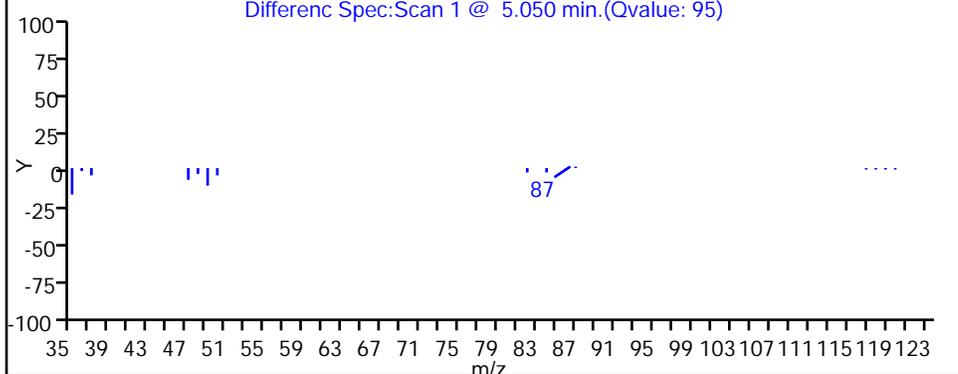
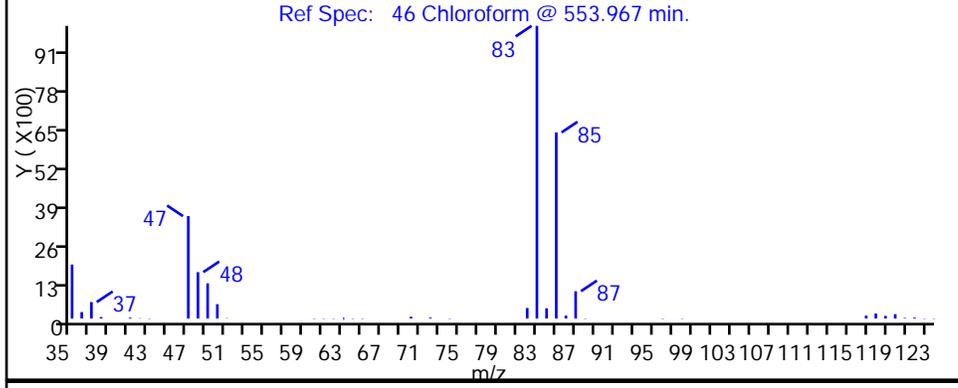
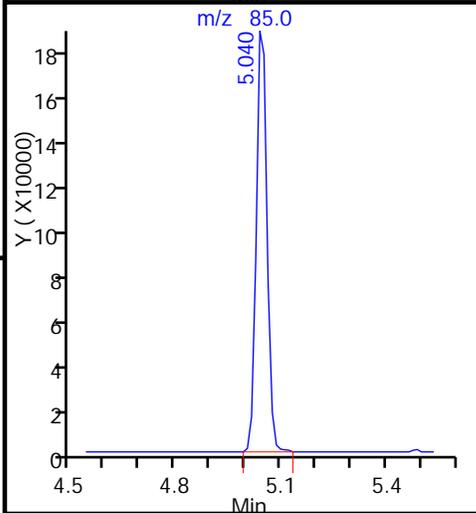
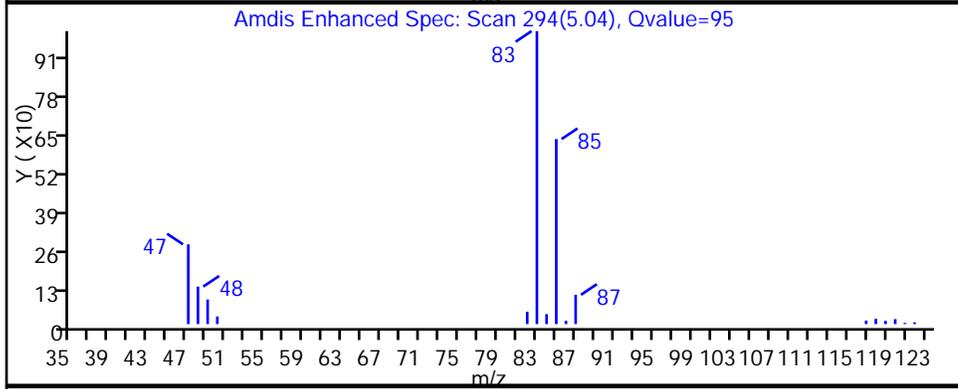
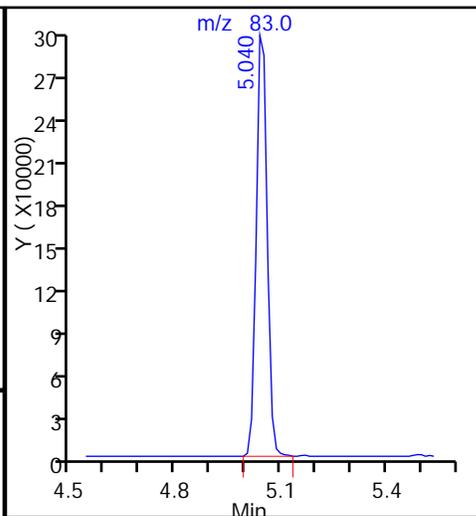
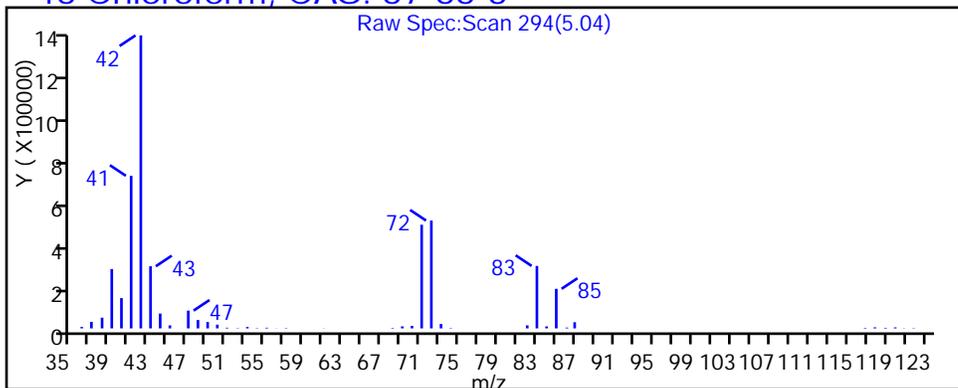
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

46 Chloroform, CAS: 67-66-3



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

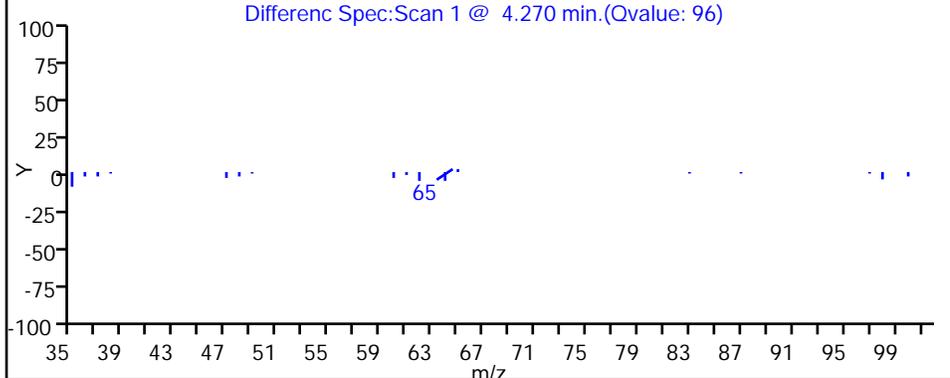
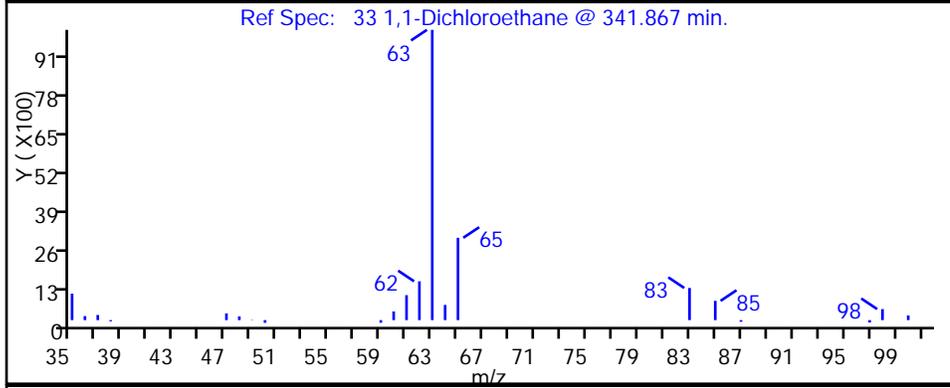
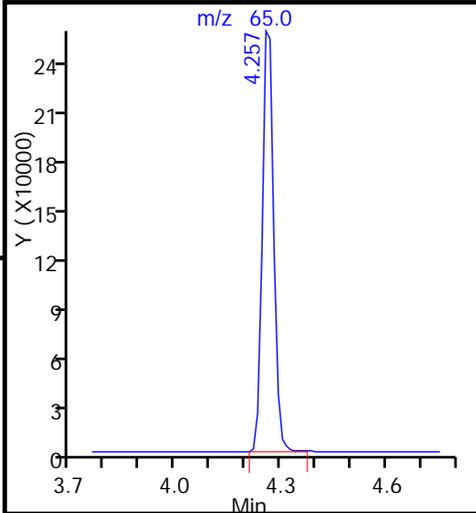
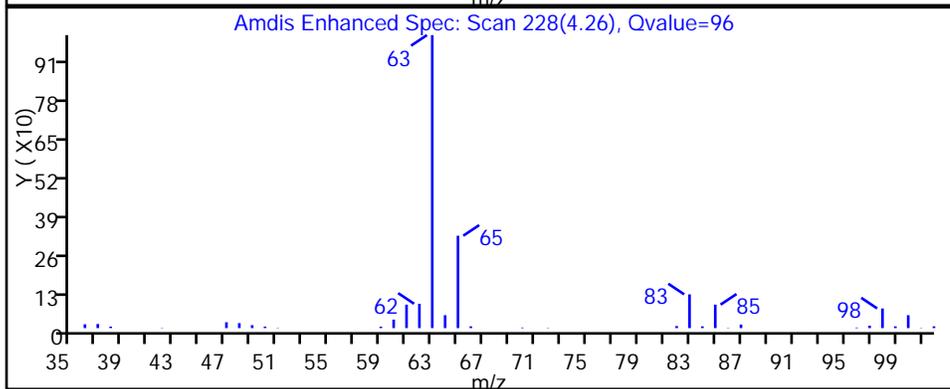
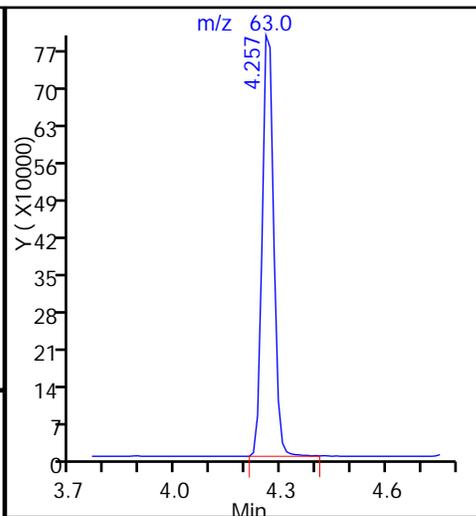
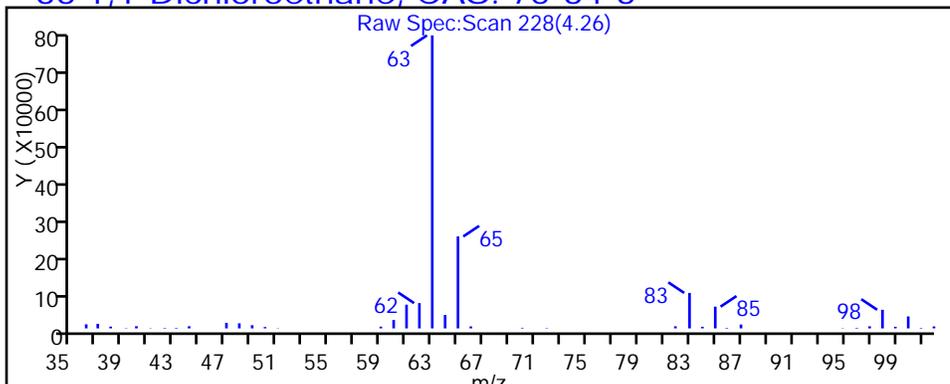
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 33 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

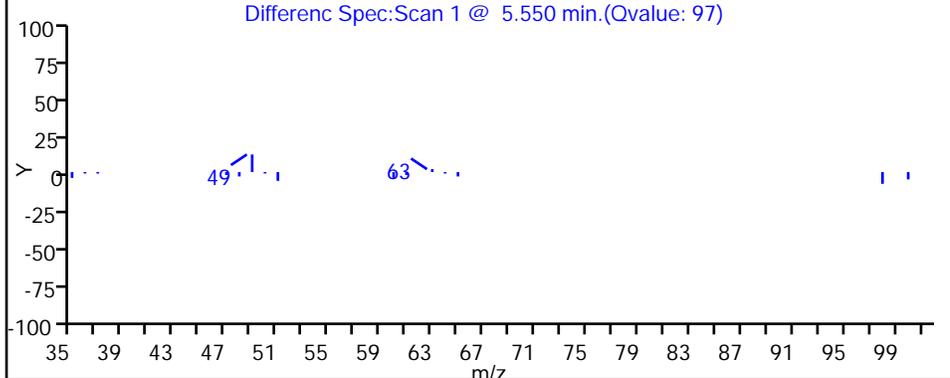
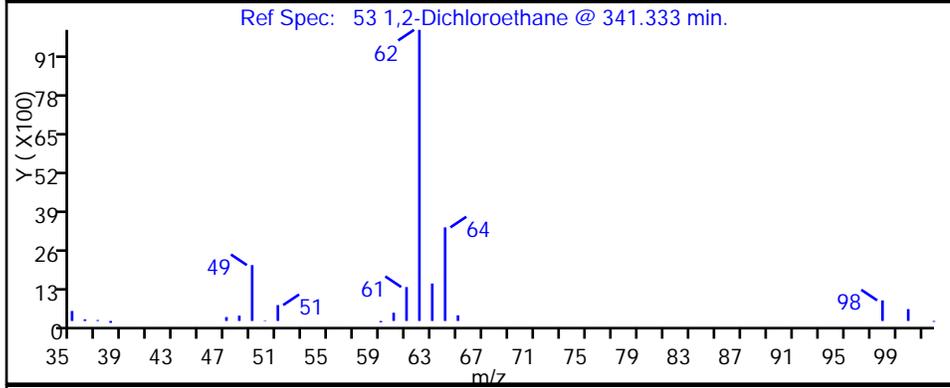
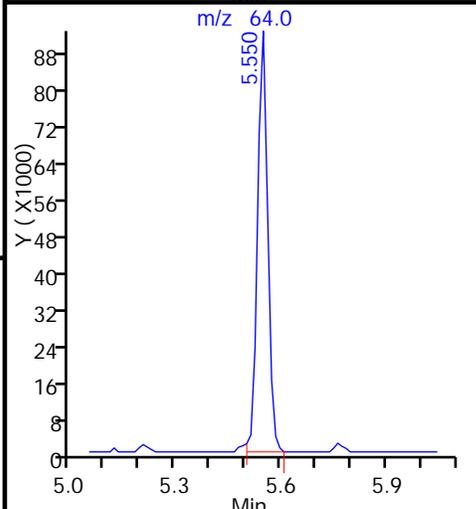
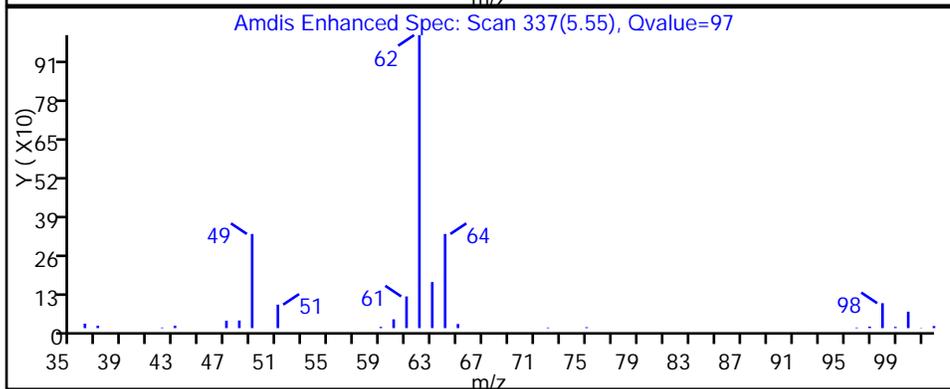
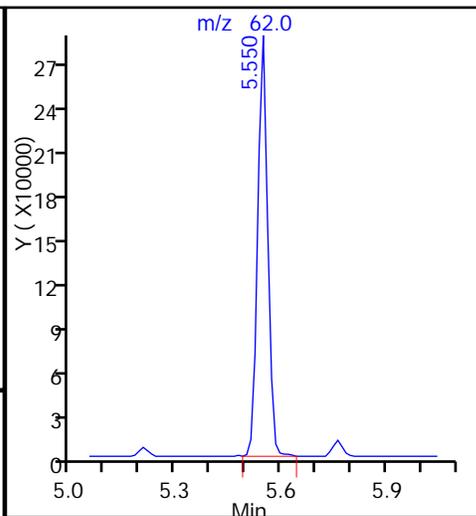
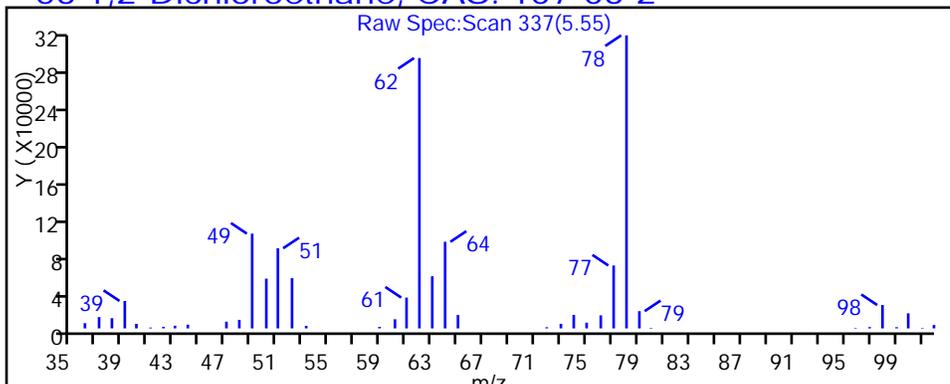
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,2-Dichloroethane, CAS: 107-06-2



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

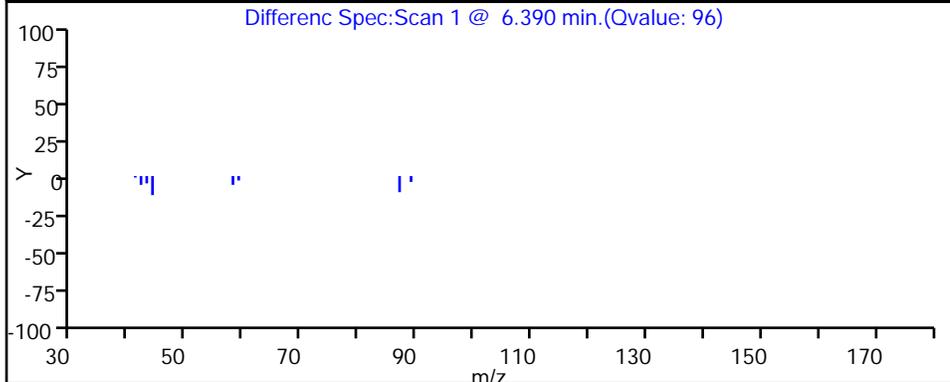
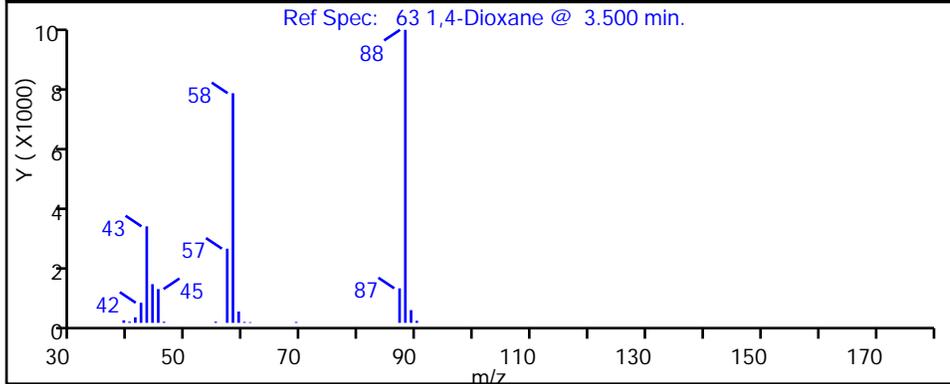
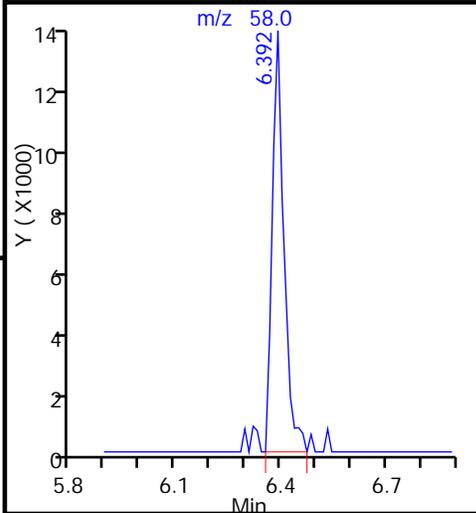
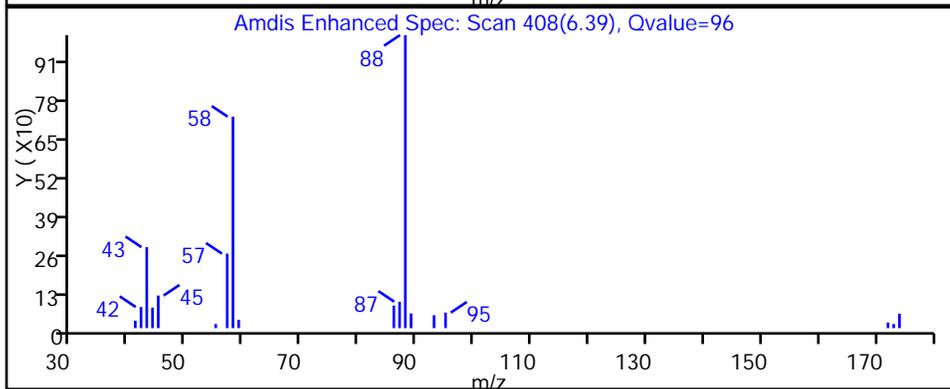
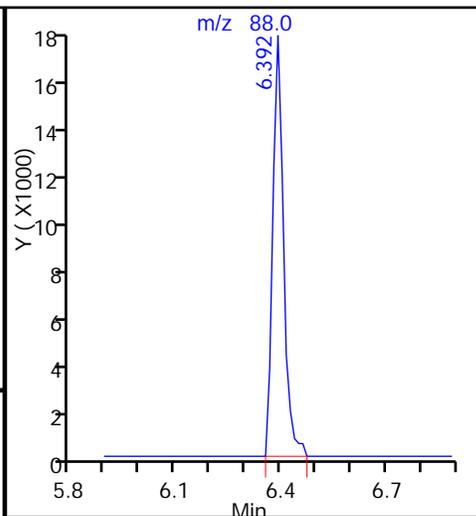
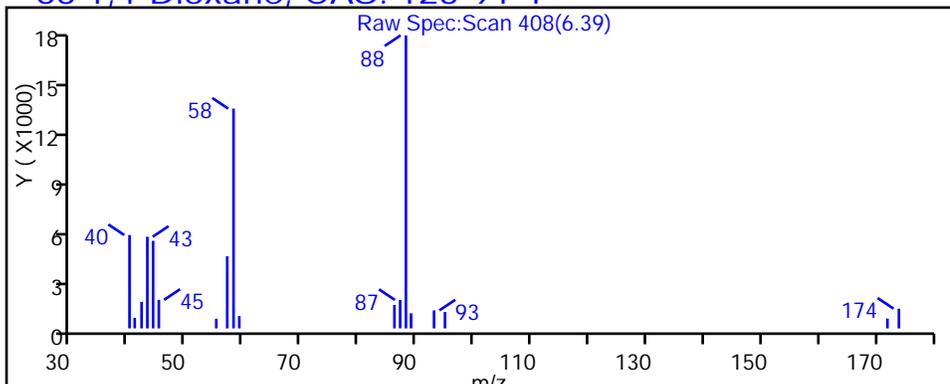
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

63 1,4-Dioxane, CAS: 123-91-1



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

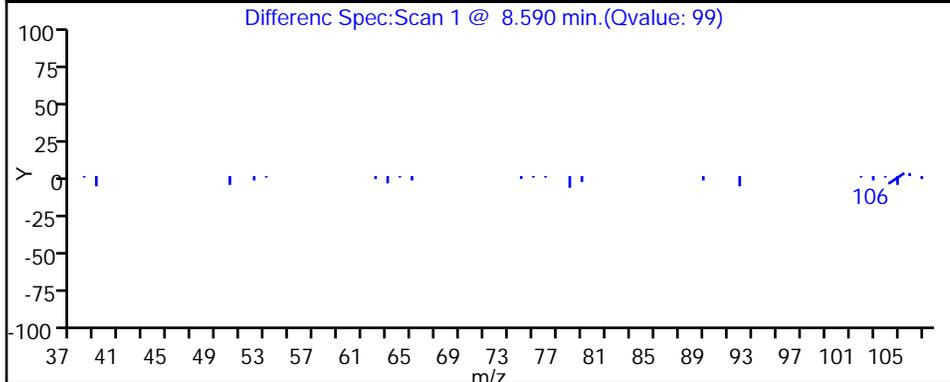
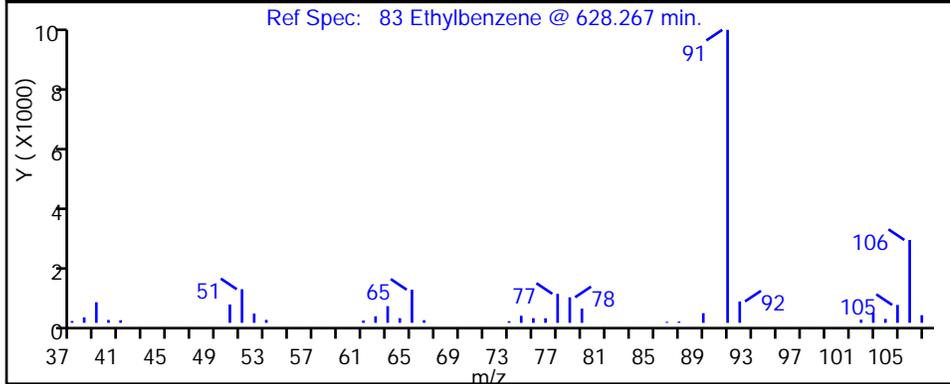
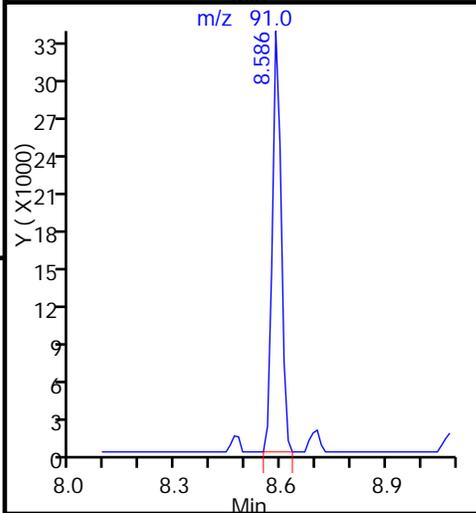
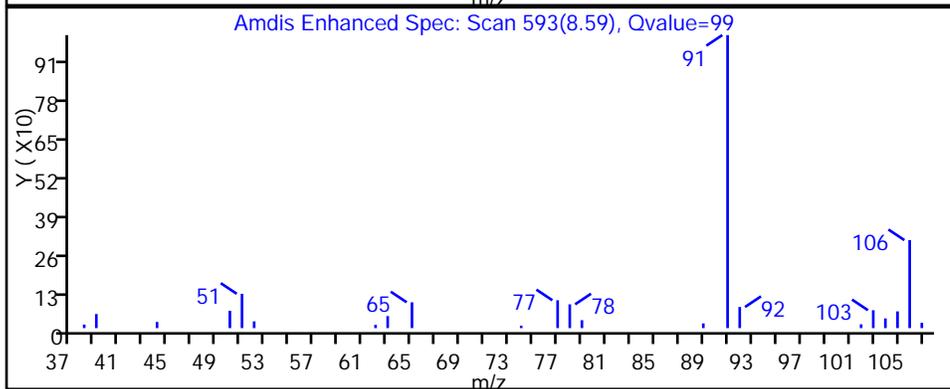
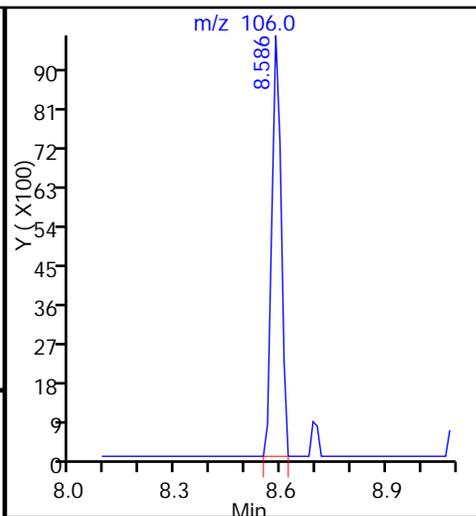
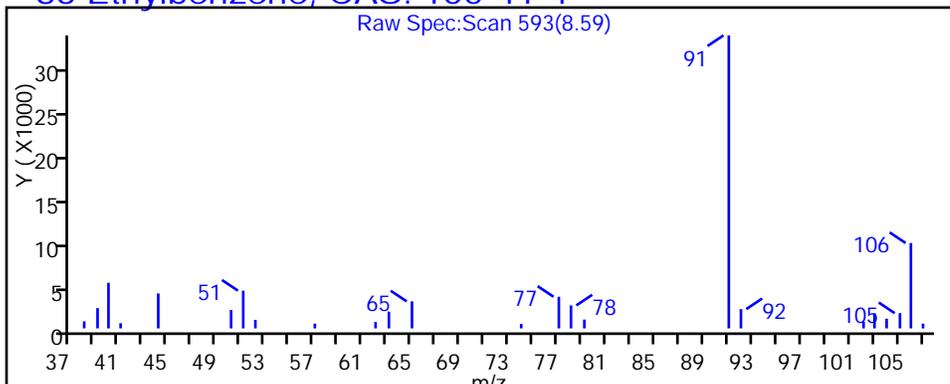
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

83 Ethylbenzene, CAS: 100-41-4



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

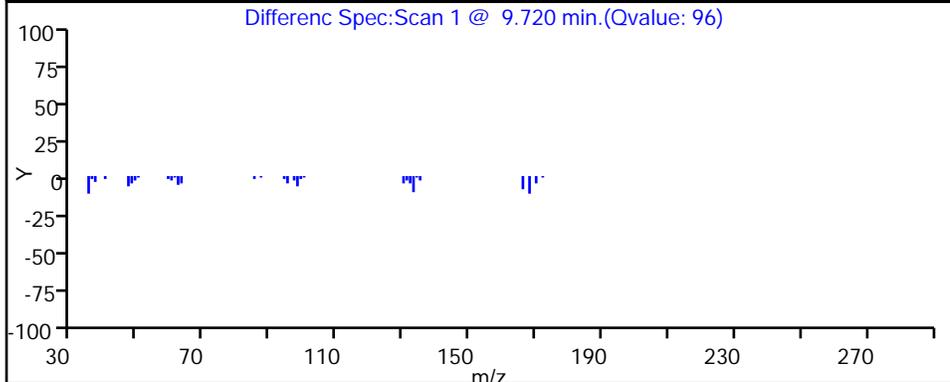
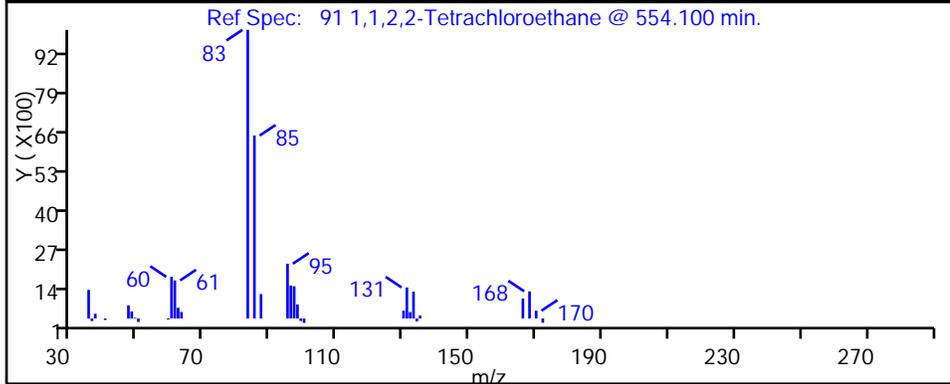
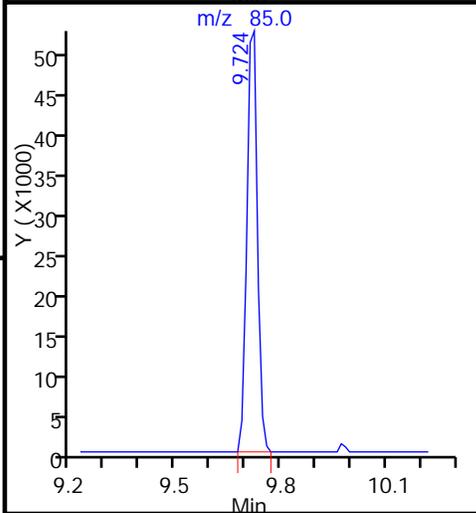
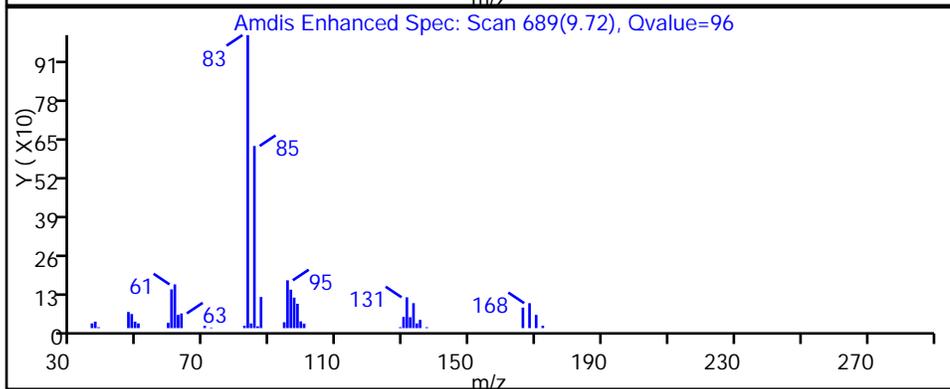
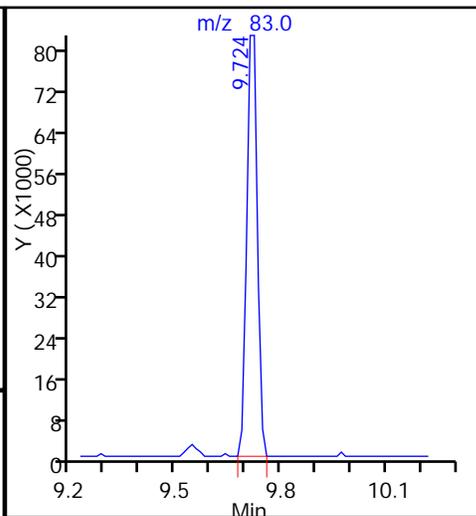
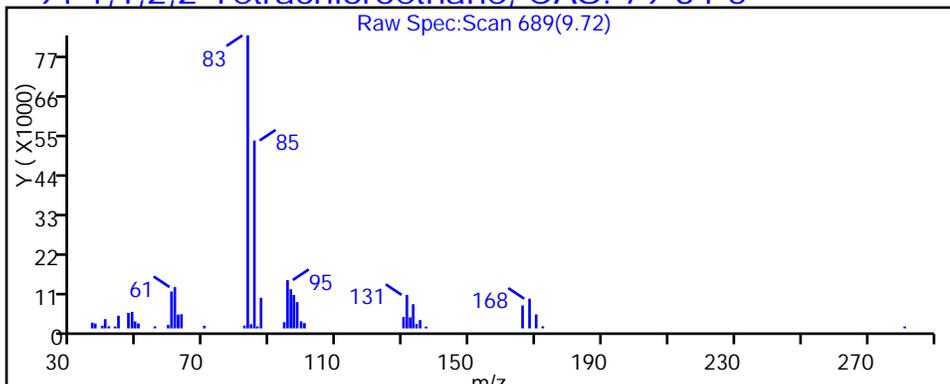
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

91 1,1,2,2-Tetrachloroethane, CAS: 79-34-5



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

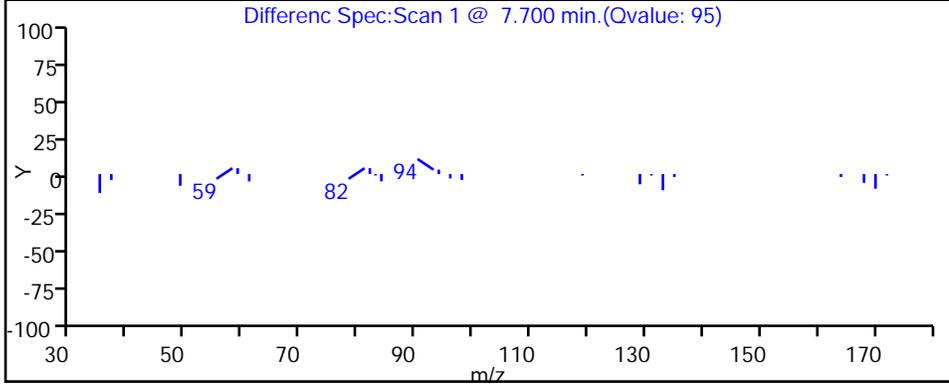
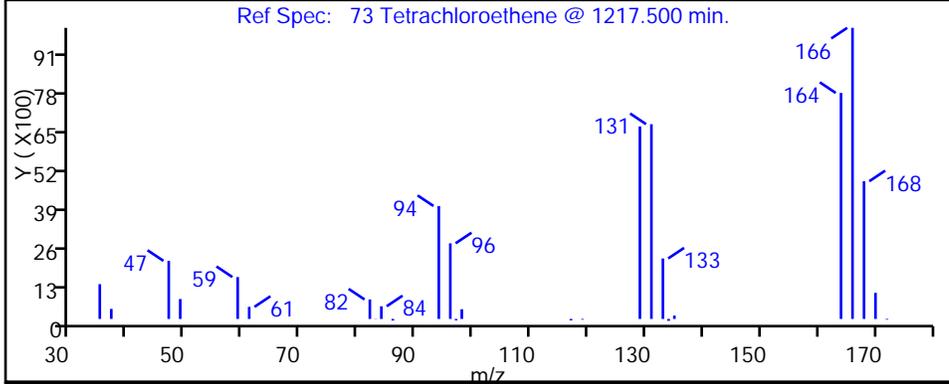
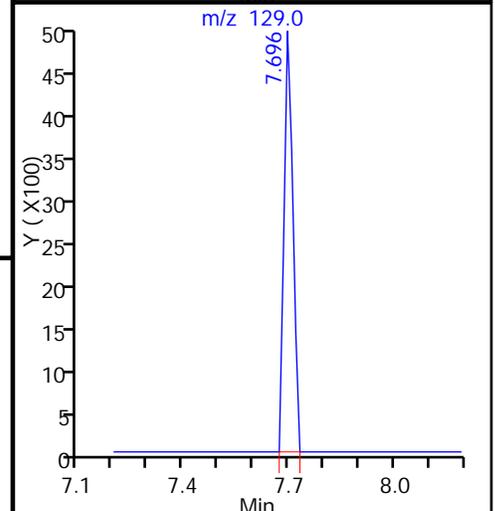
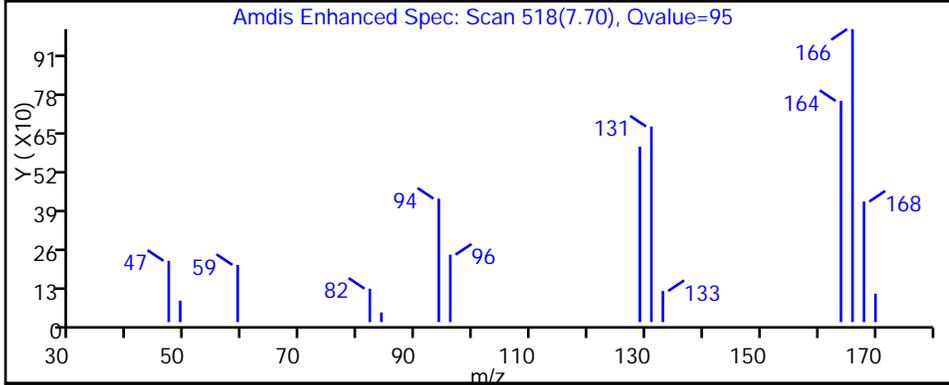
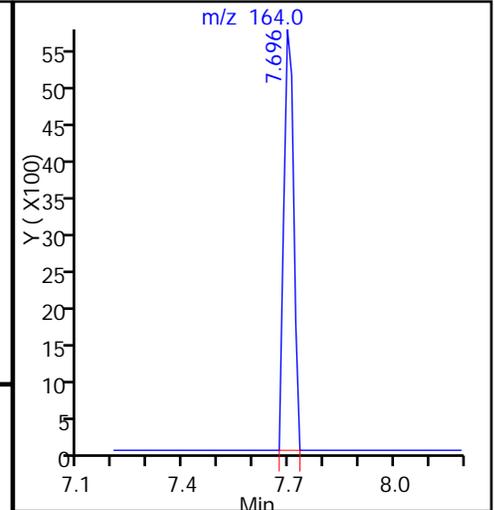
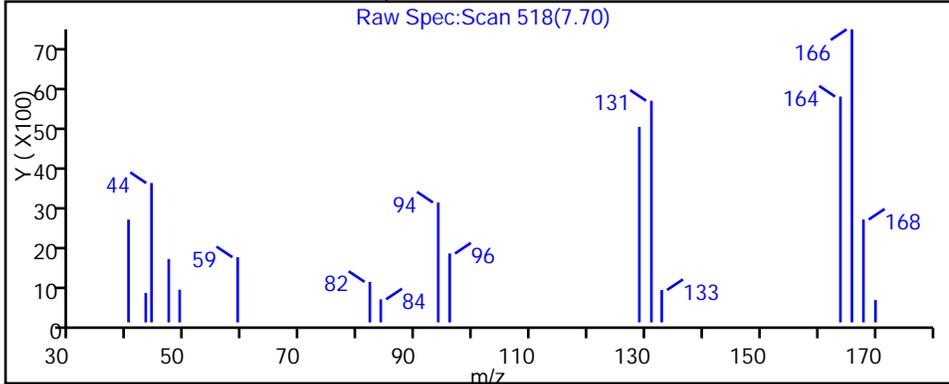
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

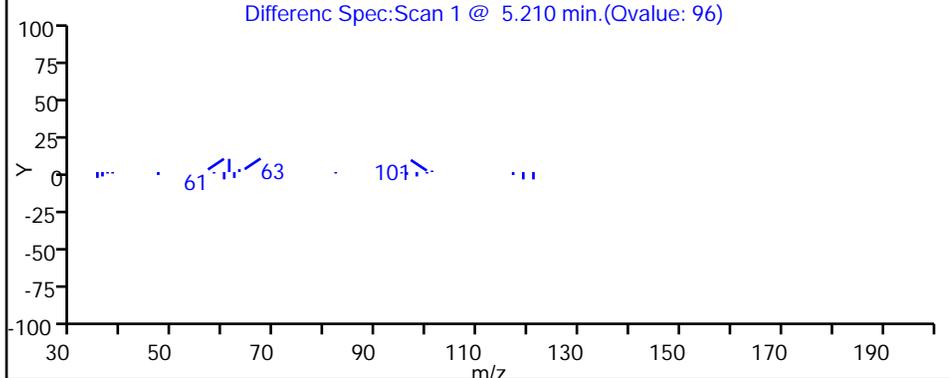
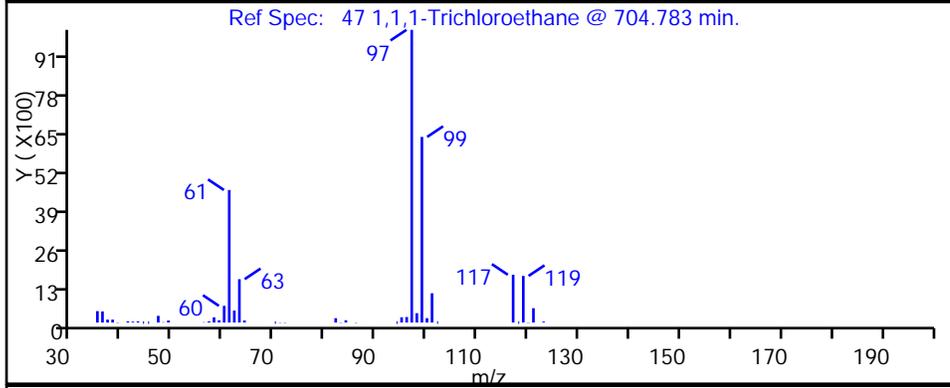
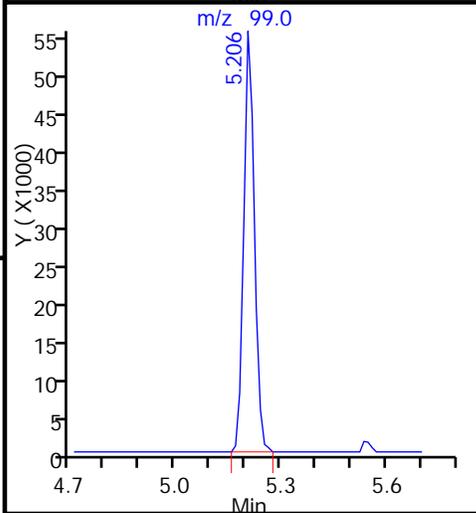
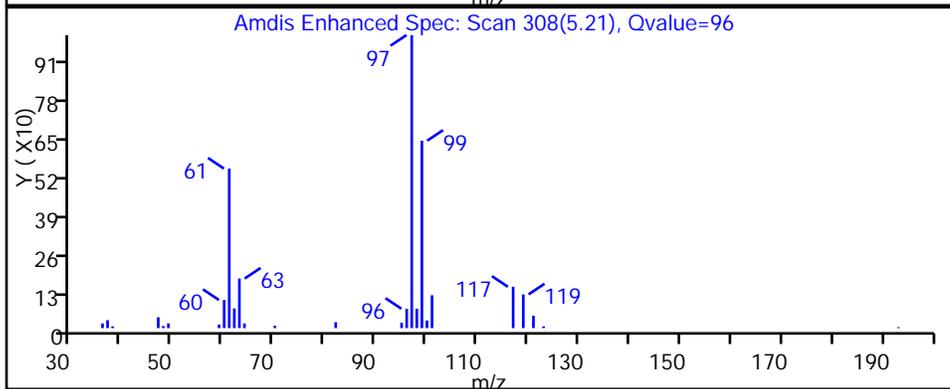
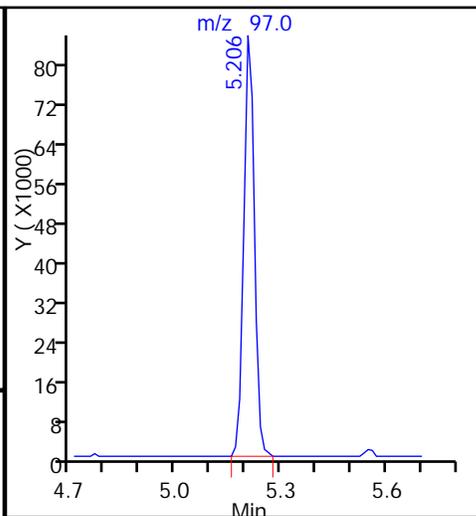
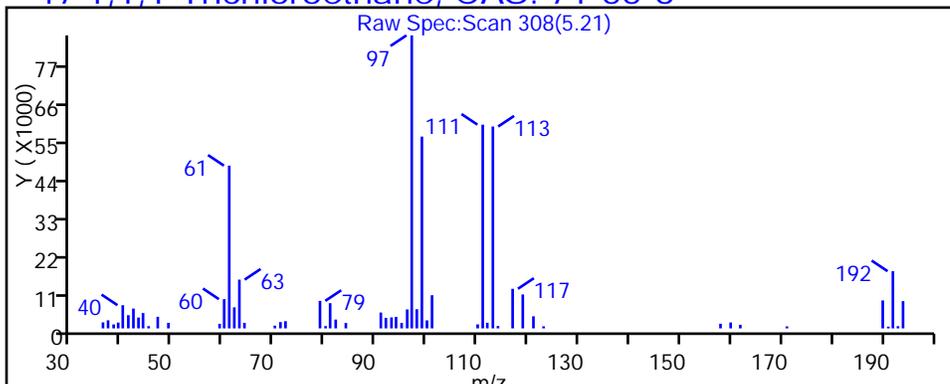
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 47 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

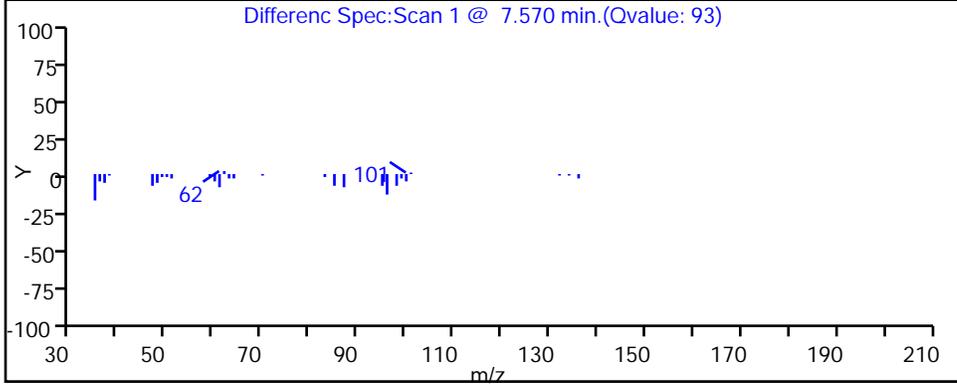
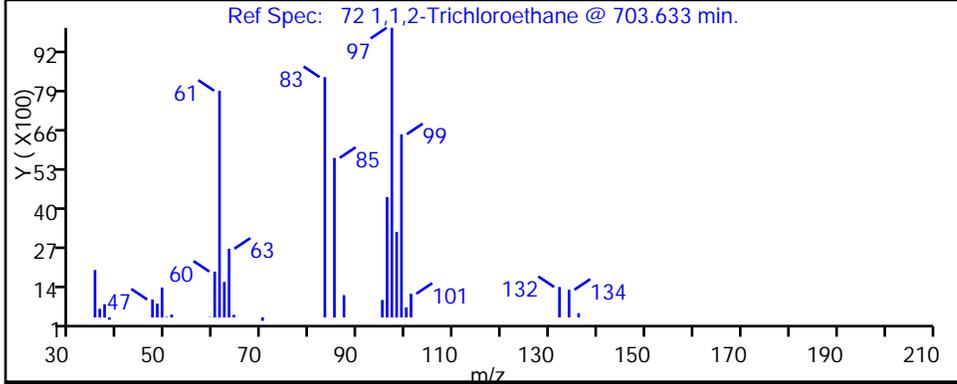
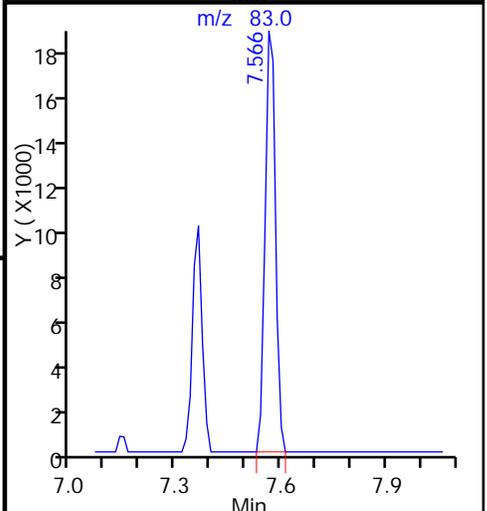
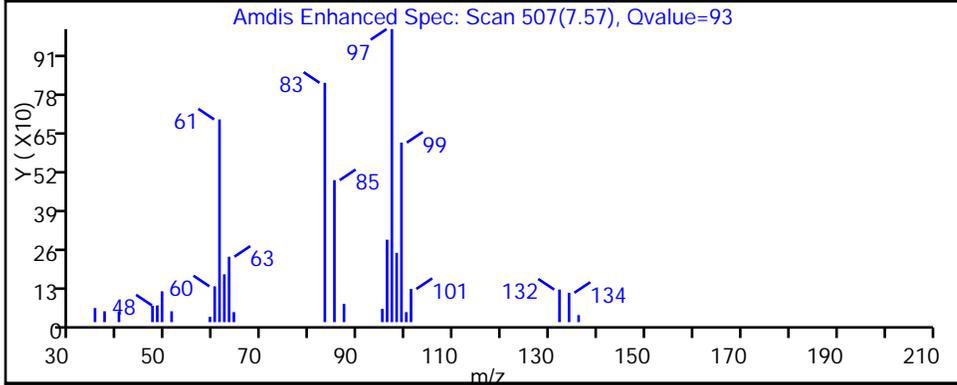
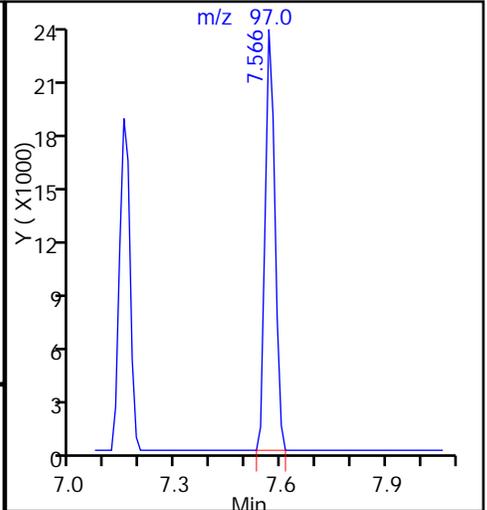
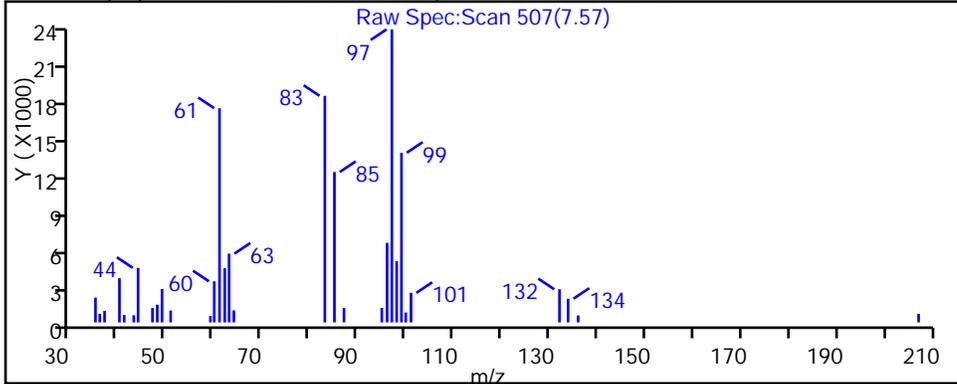
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

72 1,1,2-Trichloroethane, CAS: 79-00-5



TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D

Injection Date: 02-Dec-2014 19:55:30

Instrument ID: A3UX17

Lims ID: 240-44867-B-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

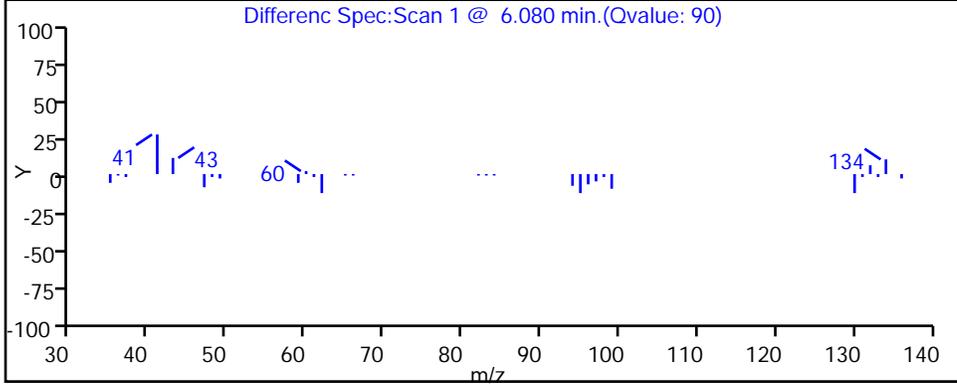
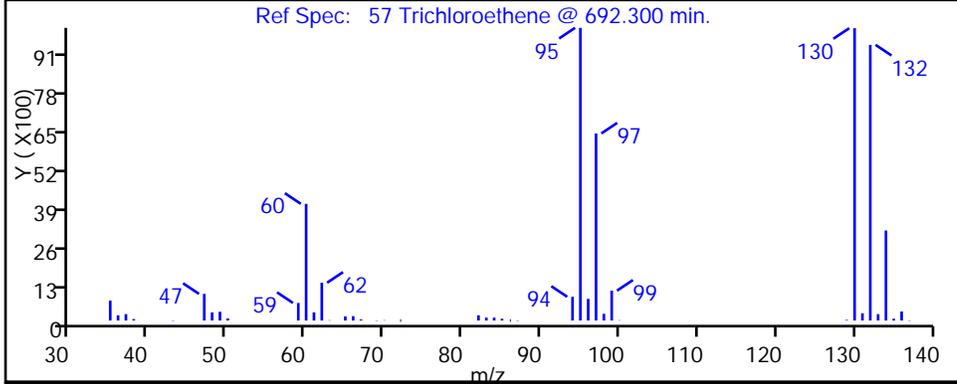
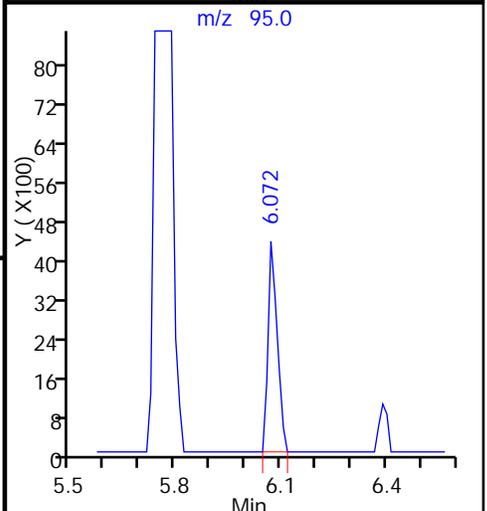
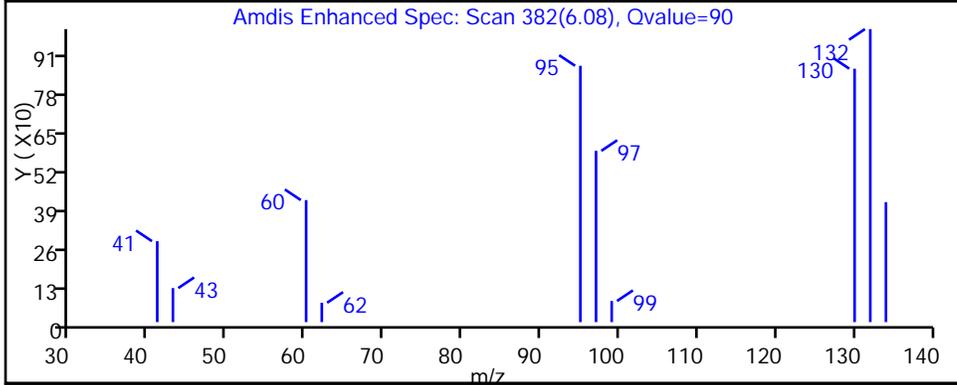
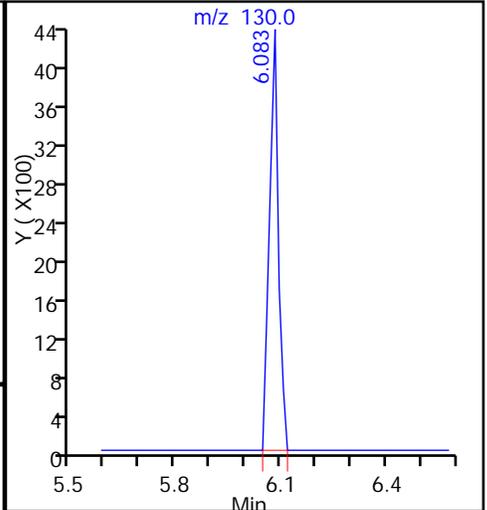
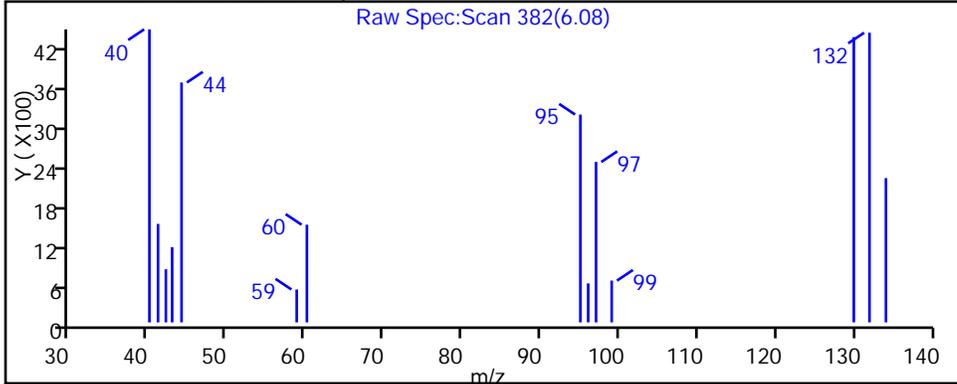
Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 57 Trichloroethene, CAS: 79-01-6



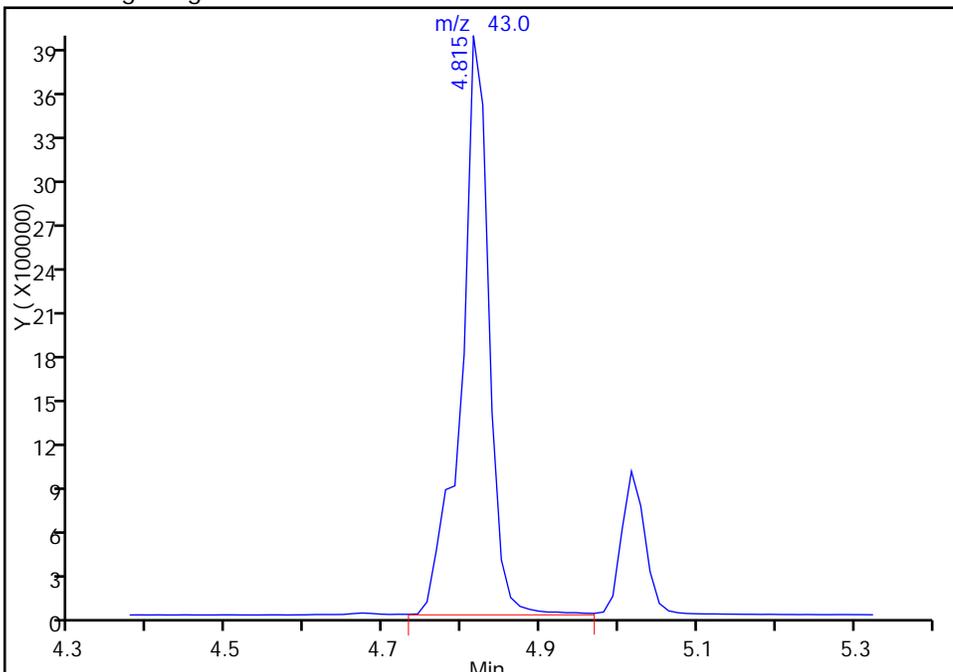
TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141202-38076.b\UXR7735.D  
Injection Date: 02-Dec-2014 19:55:30 Instrument ID: A3UX17  
Lims ID: 240-44867-B-1 Lab Sample ID: 240-44867-1  
Client ID: EFFLUENT/112514  
Operator ID: 1904 ALS Bottle#: 26 Worklist Smp#: 27  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 8260\_17 Limit Group: MSV 8260B ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3

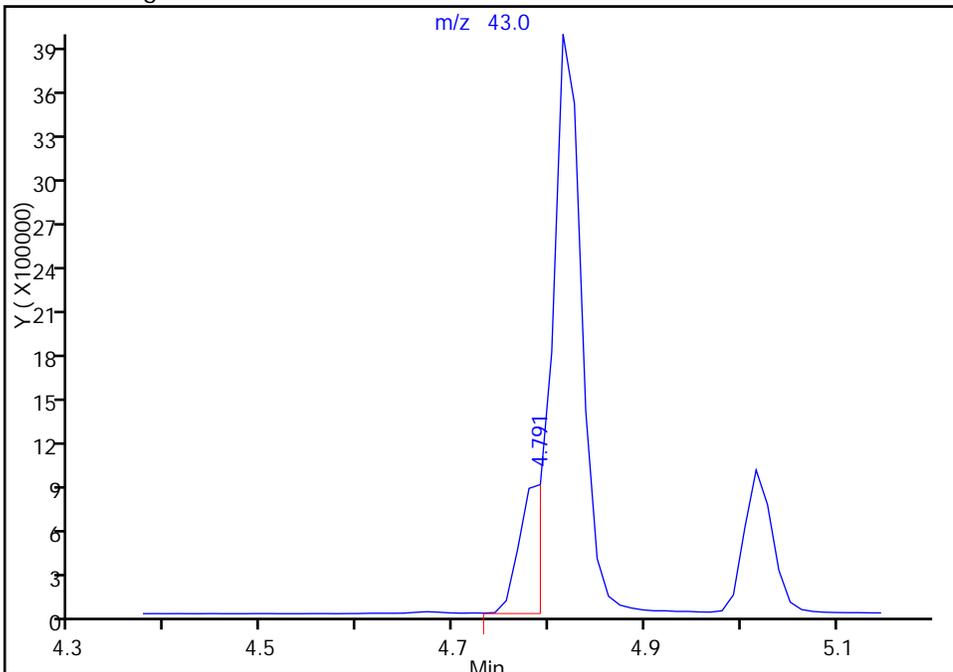
Processing Integration Results

RT: 4.81  
Response: 9631626  
Amount: 712.4992



Manual Integration Results

RT: 4.79  
Response: 1612063  
Amount: 118.7004



Reviewer: quayler, 03-Dec-2014 13:15:43  
Audit Action: Split an Integrated Peak  
Audit Reason: Poor Chromatography

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EFFLUENT/112514 RA Lab Sample ID: 240-44867-1 RA  
 Matrix: Water Lab File ID: UXM0025.D  
 Analysis Method: 8260B Date Collected: 11/25/2014 10:25  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 12:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	31		10	3.4
75-05-8	Acetonitrile	ND		20	9.2
107-02-8	Acrolein	ND	*	20	1.4
107-13-1	Acrylonitrile	ND		20	6.3
71-43-2	Benzene	9.1		1.0	0.24
75-27-4	Bromodichloromethane	ND		1.0	0.15
75-25-2	Bromoform	1.4		1.0	0.56
74-83-9	Bromomethane	ND		1.0	0.63
78-93-3	2-Butanone	ND		10	4.1
75-15-0	Carbon disulfide	ND		1.0	0.28
56-23-5	Carbon tetrachloride	0.47	J	1.0	0.17
108-90-7	Chlorobenzene	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.33
67-66-3	Chloroform	10		1.0	0.21
74-87-3	Chloromethane	ND		1.0	0.44
126-99-8	Chloroprene	ND		2.0	0.26
107-05-1	3-Chloro-1-propene	ND		2.0	0.84
156-59-2	cis-1,2-Dichloroethene	0.60	J	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
124-48-1	Dibromochloromethane	ND		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.82
74-95-3	Dibromomethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.50
75-34-3	1,1-Dichloroethane	28		1.0	0.26
107-06-2	1,2-Dichloroethane	13		1.0	0.20
75-35-4	1,1-Dichloroethene	ND		1.0	0.45
540-59-0	1,2-Dichloroethene, Total	0.60	J	2.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.22
123-91-1	1,4-Dioxane	190		50	40
100-41-4	Ethylbenzene	0.28	J	1.0	0.23
106-93-4	Ethylene Dibromide	ND		1.0	0.19
97-63-2	Ethyl methacrylate	ND		1.0	0.44
591-78-6	2-Hexanone	ND		10	3.9
74-88-4	Iodomethane	ND		1.0	0.42
78-83-1	Isobutanol	ND		50	12
126-98-7	Methacrylonitrile	ND		2.0	0.70

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EFFLUENT/112514 RA Lab Sample ID: 240-44867-1 RA  
 Matrix: Water Lab File ID: UXM0025.D  
 Analysis Method: 8260B Date Collected: 11/25/2014 10:25  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 12:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-09-2	Methylene Chloride	ND		1.0	0.28
80-62-6	Methyl methacrylate	ND		2.0	0.99
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	3.6
107-12-0	Propionitrile	ND		4.0	0.95
100-42-5	Styrene	ND		1.0	0.45
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	5.1		1.0	0.22
127-18-4	Tetrachloroethene	0.32	J	1.0	0.20
108-88-3	Toluene	ND		1.0	0.22
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	0.31
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.56
71-55-6	1,1,1-Trichloroethane	3.7		1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.8		1.0	0.17
79-01-6	Trichloroethene	0.24	J	1.0	0.15
75-69-4	Trichlorofluoromethane	ND		1.0	0.49
96-18-4	1,2,3-Trichloropropane	ND		1.0	0.30
108-05-4	Vinyl acetate	ND	*	2.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.29
1330-20-7	Xylenes, Total	ND		2.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		66-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		63-129
2037-26-5	Toluene-d8 (Surr)	99		74-120

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D  
 Lims ID: 240-44867-A-1 Lab Sample ID: 240-44867-1  
 Client ID: EFFLUENT/112514  
 Sample Type: Client  
 Inject. Date: 03-Dec-2014 12:58:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038119-013  
 Operator ID: 1904 Instrument ID: A3UX16  
 Method: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 12:01:47 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK022

First Level Reviewer: quayler

Date: 03-Dec-2014 13:24:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	98	1275405	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	89	949159	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	528580	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.006	5.006	0.000	94	323469	11.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	410824	11.8	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	94	1254475	11.3	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	90	458401	11.5	
9 Dichlorodifluoromethane	85		1.615				ND	
10 Chloromethane	50	1.769	1.769	0.000	94	10592	0.2589	
11 Vinyl chloride	62		1.888				ND	
13 Bromomethane	94		2.220				ND	
14 Chloroethane	64		2.326				ND	
16 Trichlorofluoromethane	101		2.575				ND	
18 Acrolein	56		2.943				ND	
19 1,1-Dichloroethene	96		3.050				ND	
21 Acetone	43	3.085	3.085	0.000	99	281532	30.7	
23 Iodomethane	142		3.192				ND	
24 Carbon disulfide	76		3.263				ND	
25 Acetonitrile	41	3.346	3.334	0.012	95	11171	3.94	
26 3-Chloro-1-propene	76		3.382				ND	
28 Methylene Chloride	84	3.489	3.489	0.000	96	6875	0.2183	
30 Acrylonitrile	53		3.690				ND	
32 trans-1,2-Dichloroethene	96		3.738				ND	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	97	1801242	28.0	
35 Vinyl acetate	43		4.141				ND	
37 2-Chloro-1,3-butadiene	53		4.188				ND	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	85	20482	0.6035	
40 2-Butanone (MEK)	43		4.603				ND	
42 Propionitrile	54		4.651				ND	
44 Methacrylonitrile	41		4.781				ND	
47 Chloroform	83	4.864	4.864	0.000	97	524484	10.0	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	95	165313	3.69	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117	5.196	5.196	0.000	90	18873	0.4660	
52 Isobutyl alcohol	41		5.232				ND	
54 Benzene	78	5.362	5.362	0.000	96	1155972	9.11	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	70	605188	13.4	
58 Trichloroethene	130	5.908	5.908	0.000	87	7644	0.2376	
61 1,2-Dichloropropane	63		6.097				ND	
62 Methyl methacrylate	41		6.169				ND	
63 Dibromomethane	93		6.192				ND	
64 1,4-Dioxane	88	6.204	6.204	0.000	94	37553	194.8	
65 Dichlorobromomethane	83		6.323				ND	
68 cis-1,3-Dichloropropene	75		6.714				ND	
69 4-Methyl-2-pentanone (MIBK)	43		6.833				ND	
70 Toluene	91		7.022				ND	
71 trans-1,3-Dichloropropene	75		7.200				ND	
72 Ethyl methacrylate	69		7.271				ND	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	91	40981	1.75	
75 Tetrachloroethene	164	7.520	7.520	0.000	93	7977	0.3204	
76 2-Hexanone	43		7.580				ND	
78 Chlorodibromomethane	129		7.734				ND	
80 Ethylene Dibromide	107		7.852				ND	
82 Chlorobenzene	112		8.303				ND	
83 1,1,1,2-Tetrachloroethane	131		8.374				ND	
84 Ethylbenzene	106	8.410	8.398	0.012	98	12753	0.2838	
85 m-Xylene & p-Xylene	106		8.505				ND	
86 o-Xylene	106		8.884				ND	
87 Styrene	104		8.896				ND	
88 Bromoform	173	9.074	9.074	0.000	95	23699	1.44	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	146033	5.09	
95 1,2,3-Trichloropropane	110		9.548				ND	
94 trans-1,4-Dichloro-2-buten	53		9.560				ND	
113 1,2-Dibromo-3-Chloropropan	157		11.671				ND	
S 131 1,2-Dichloroethene, Total	96				0		0.6035	
S 133 Xylenes, Total	106		16.530				ND	

**Reagents:**

VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00061	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00035	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Worklist Smp#: 13

Client ID: EFFLUENT/112514

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

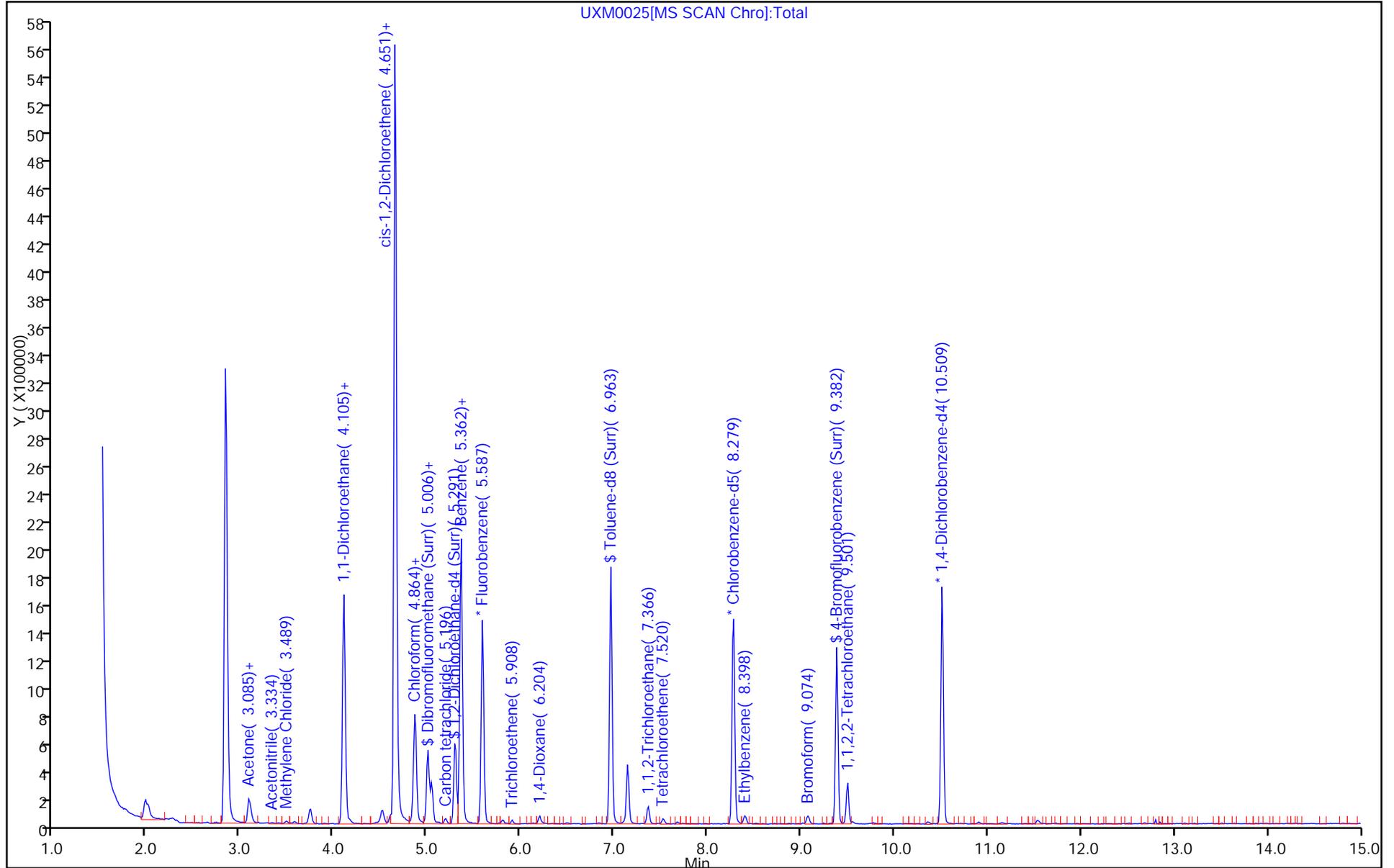
ALS Bottle#: 12

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

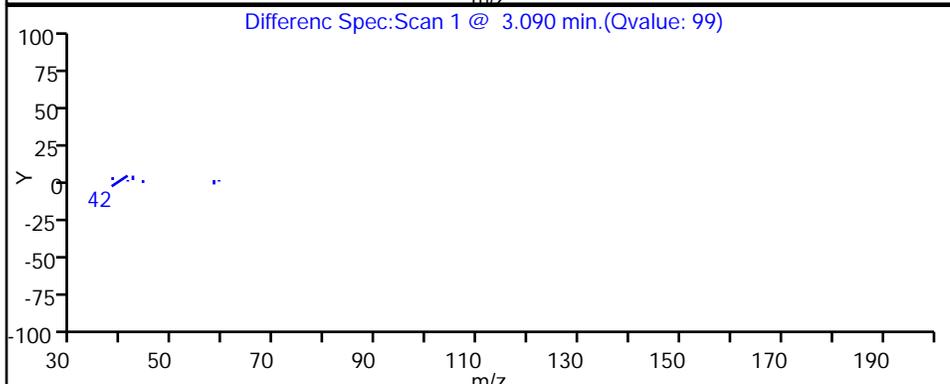
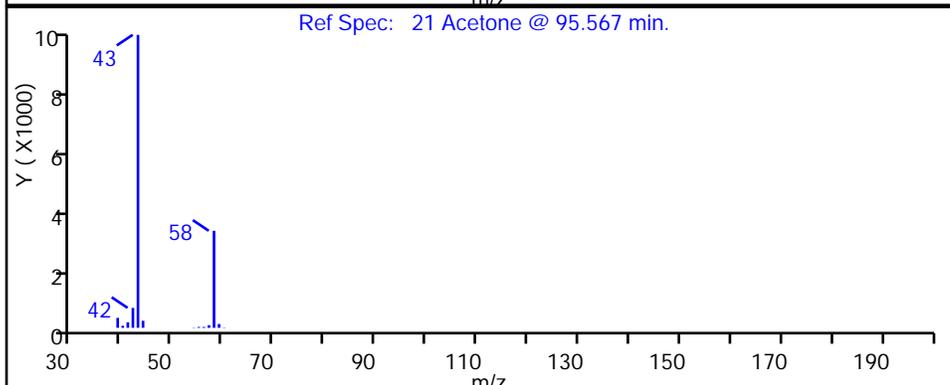
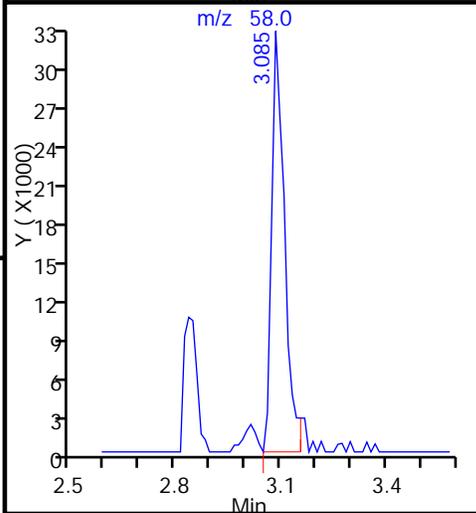
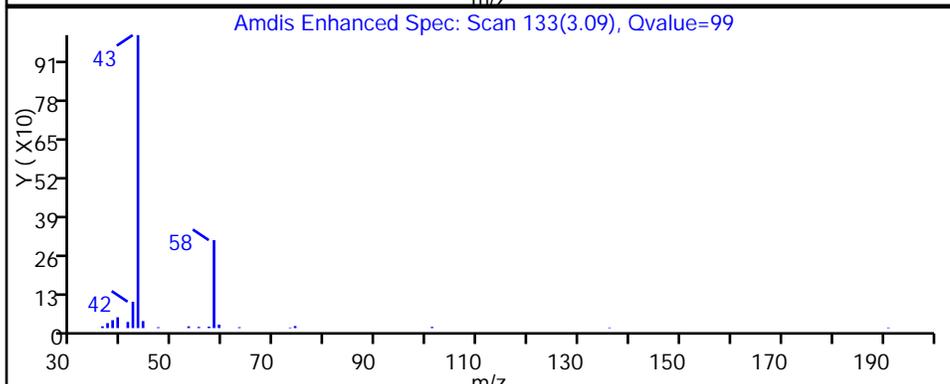
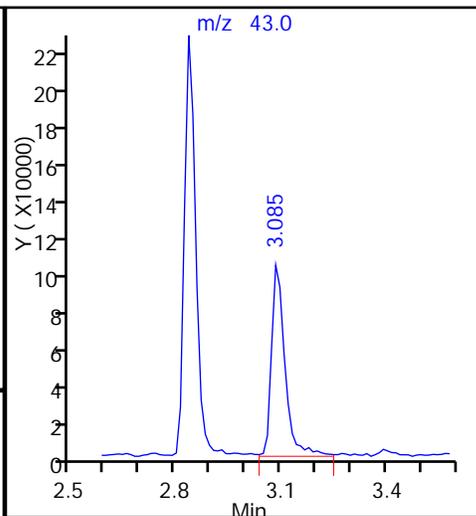
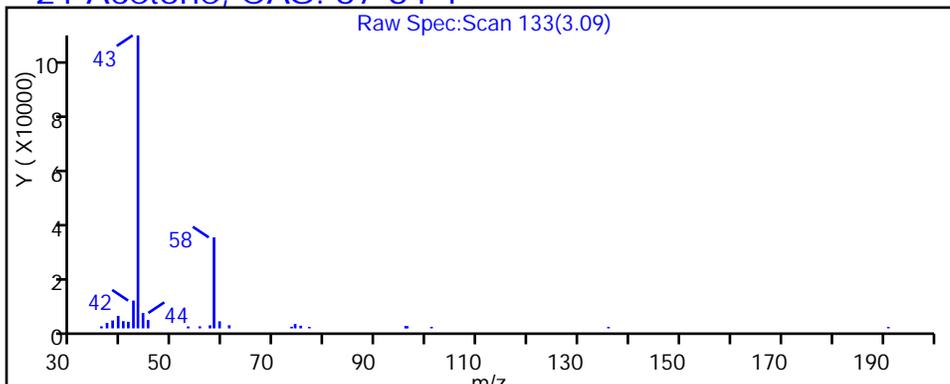
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

21 Acetone, CAS: 67-64-1



TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

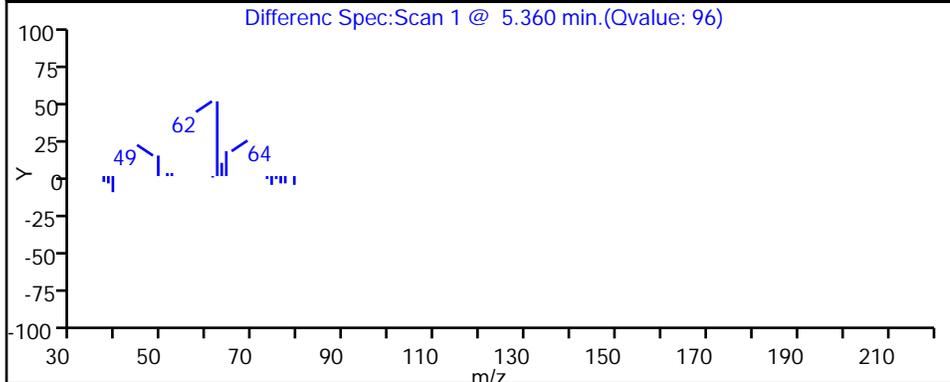
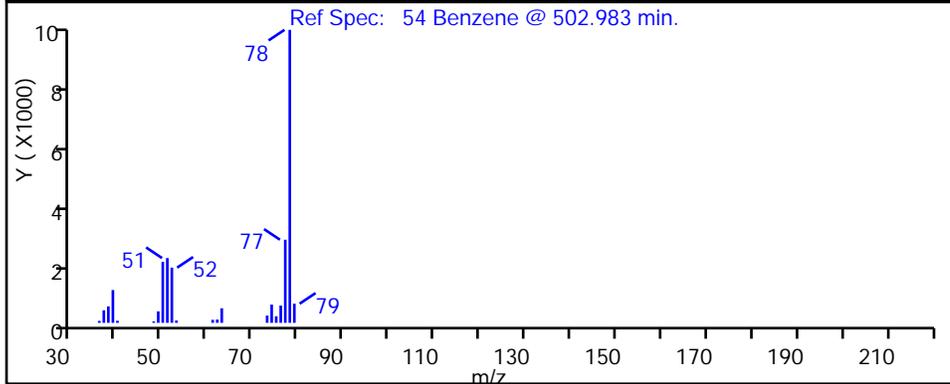
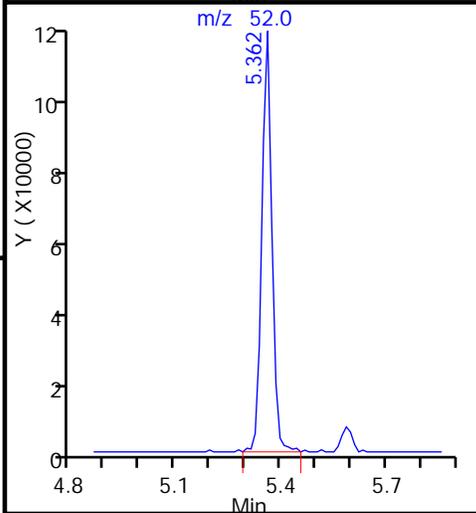
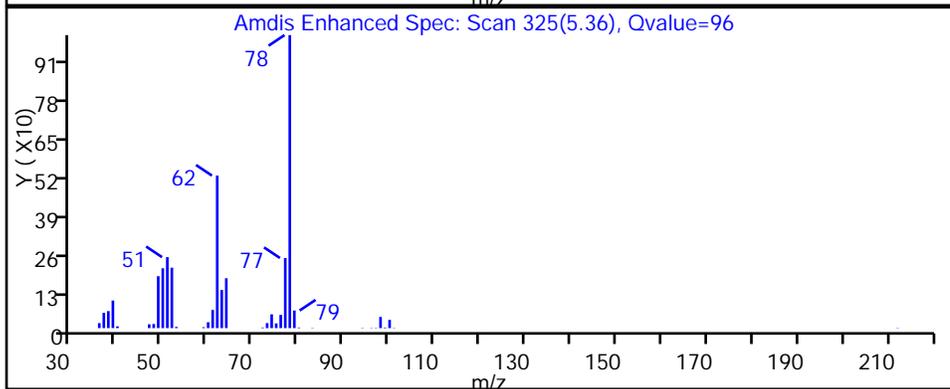
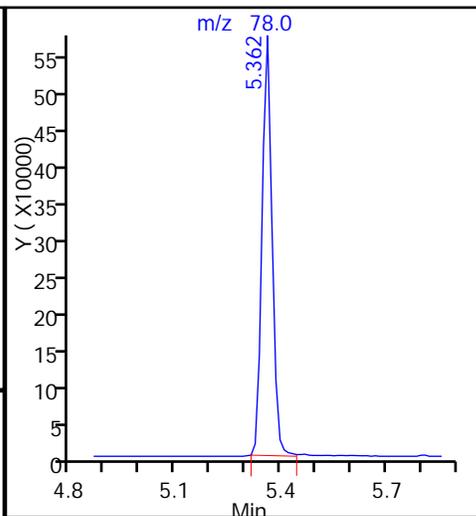
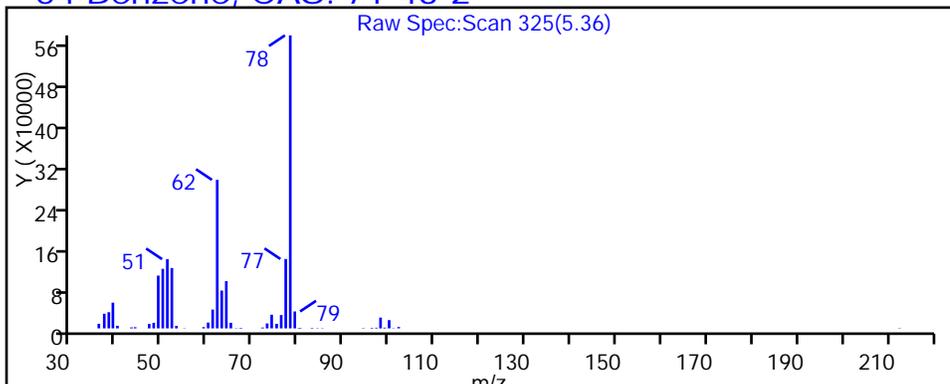
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

54 Benzene, CAS: 71-43-2



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

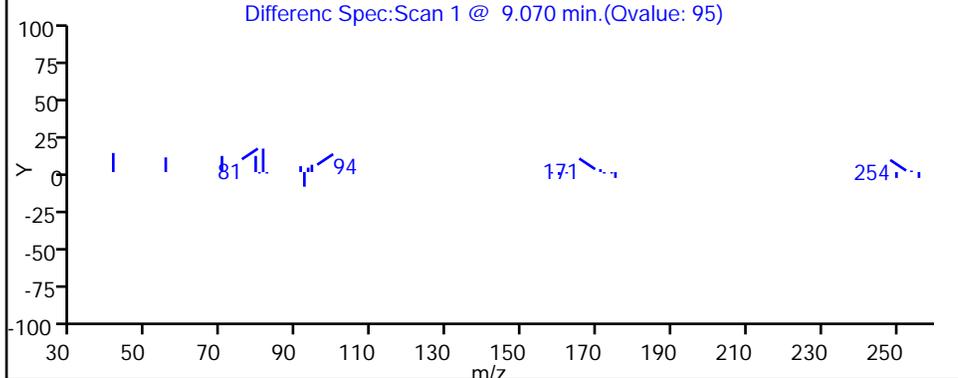
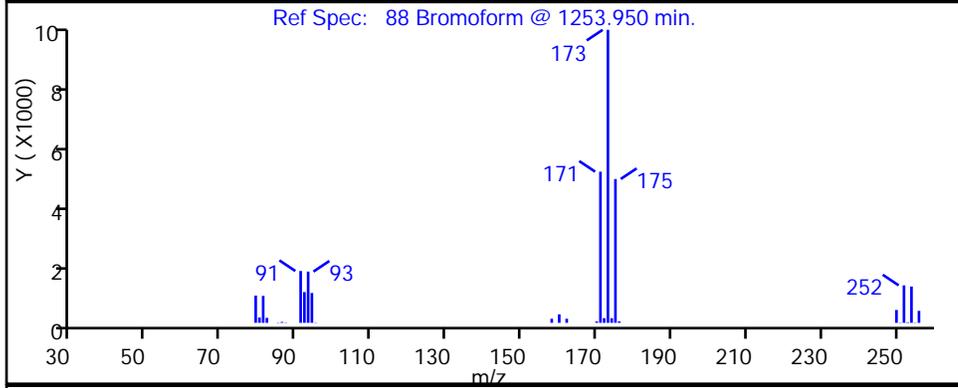
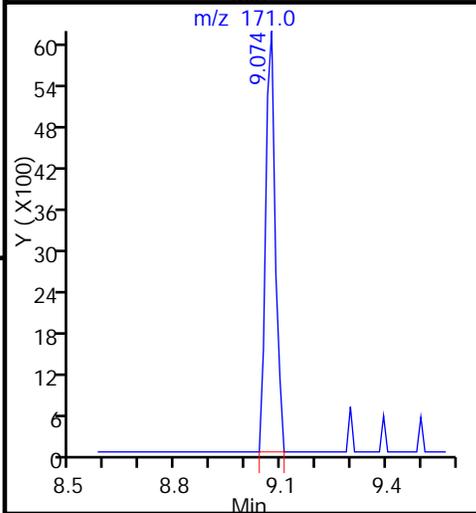
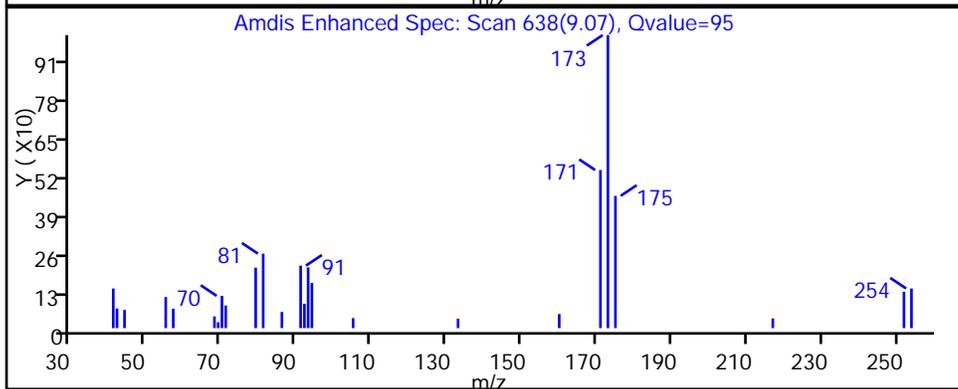
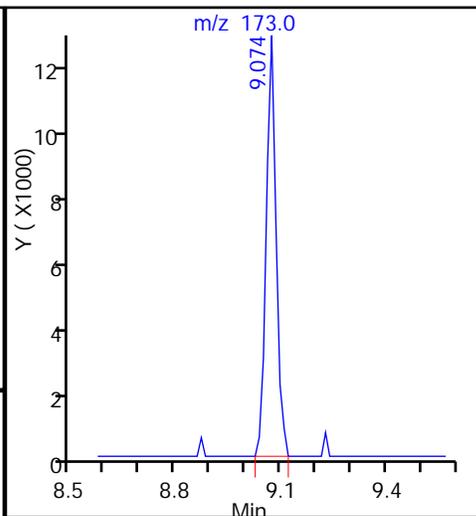
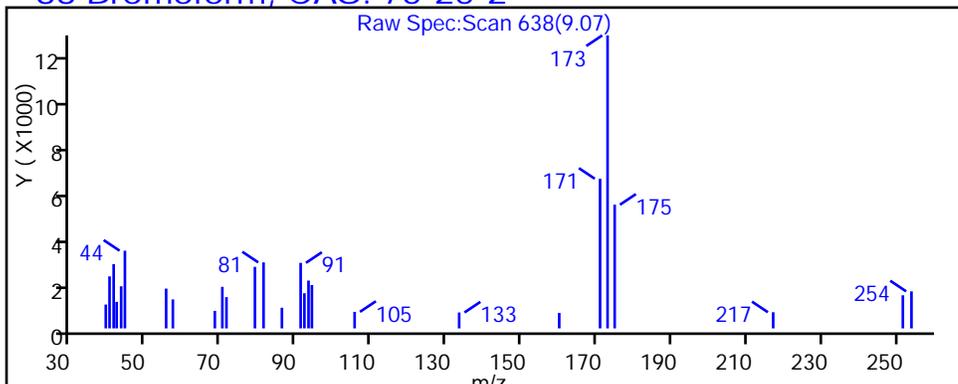
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

88 Bromoform, CAS: 75-25-2



TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

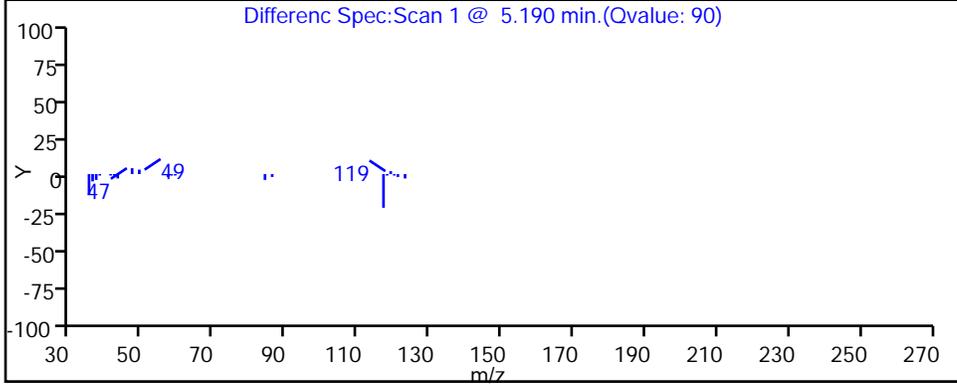
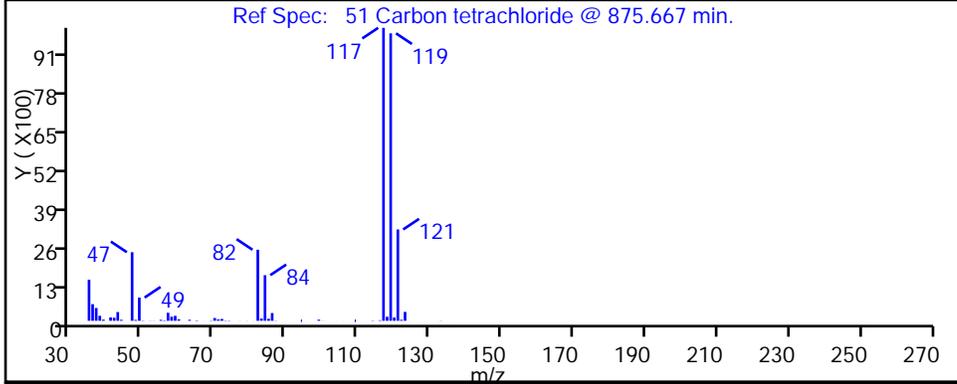
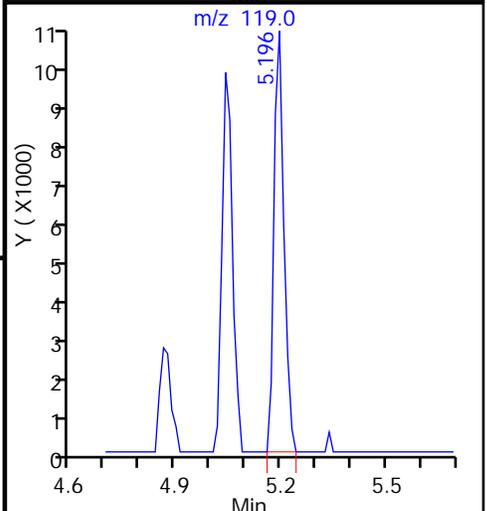
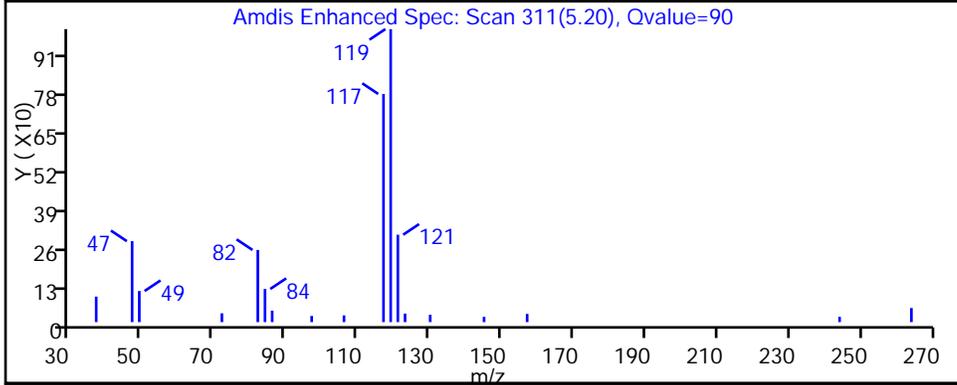
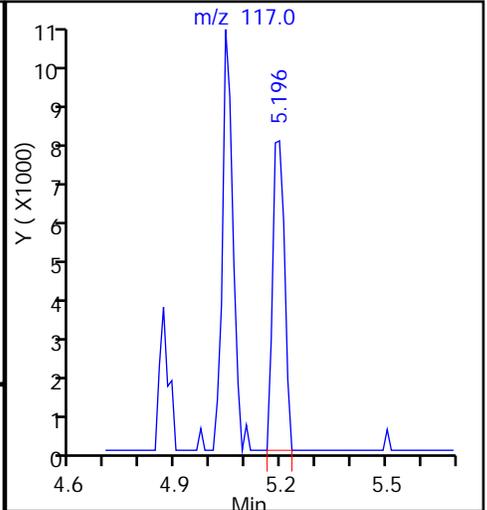
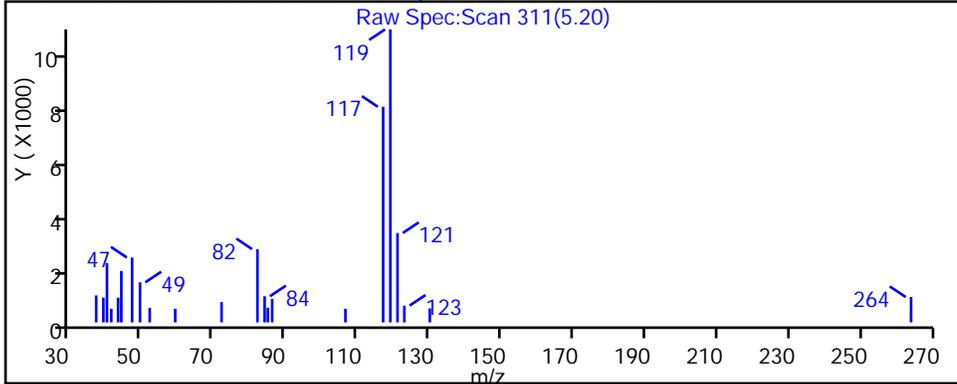
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 51 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

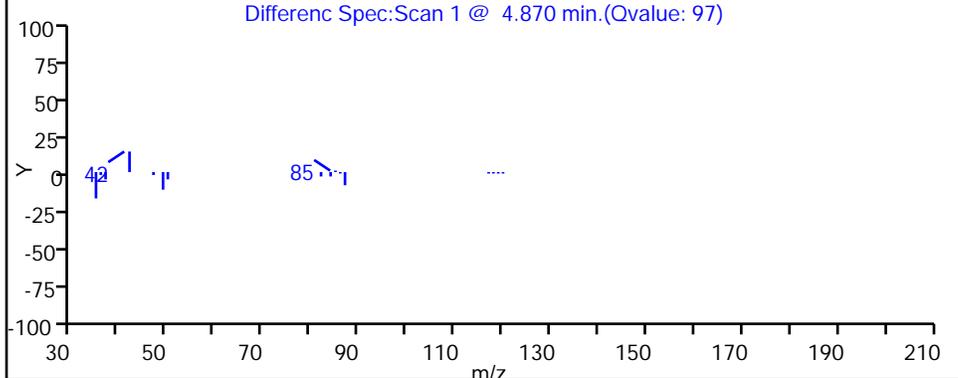
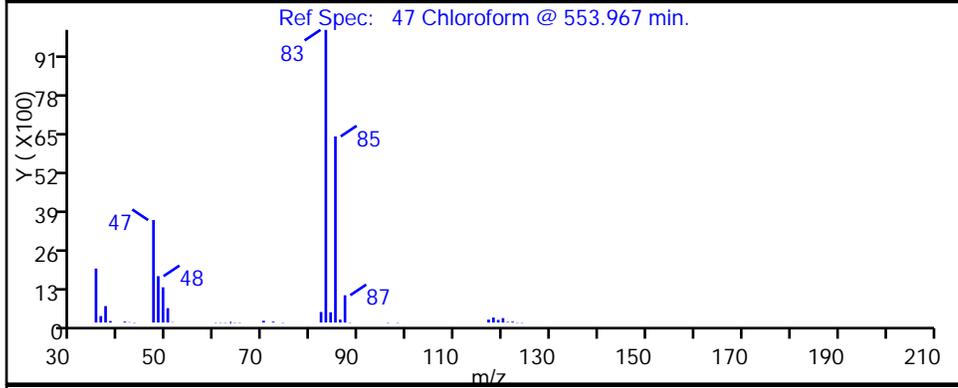
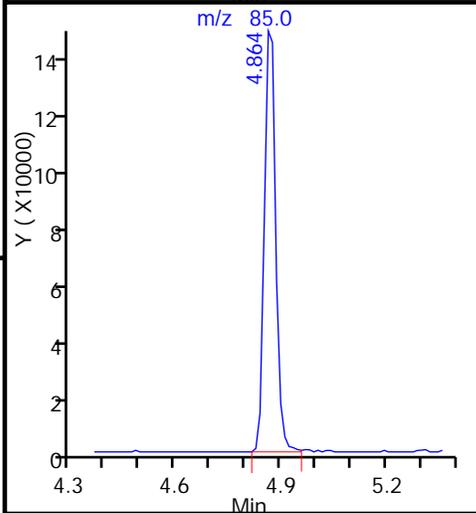
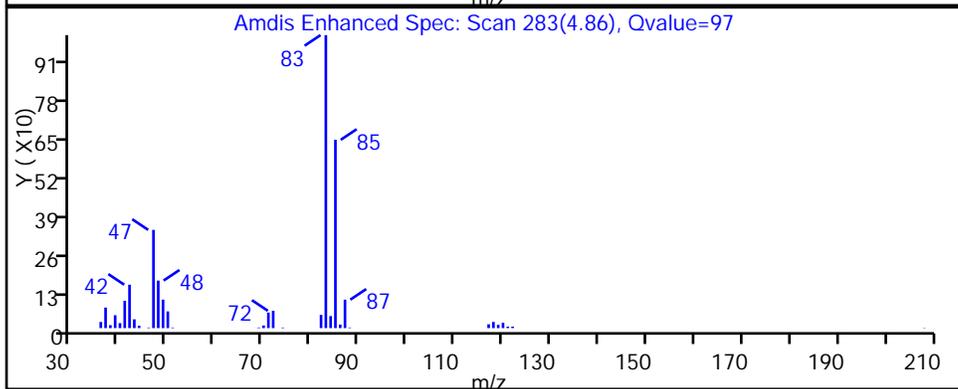
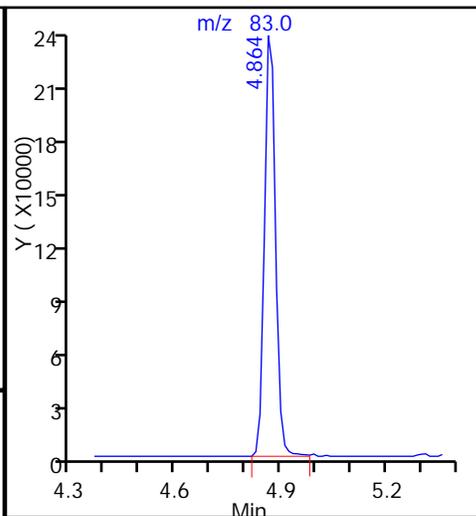
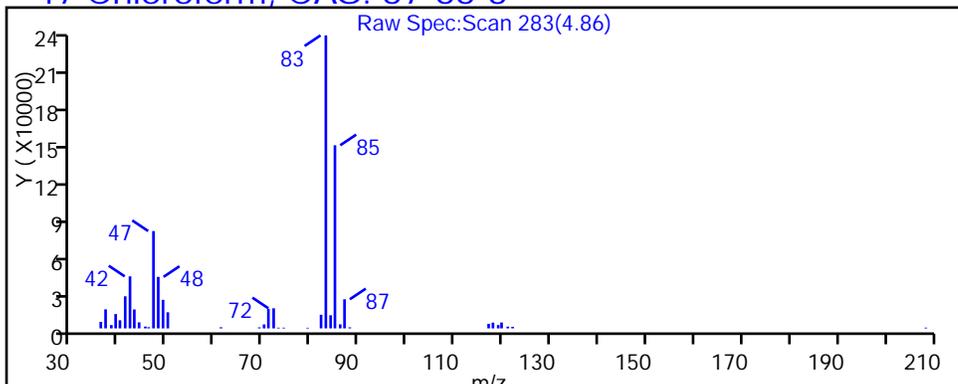
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

47 Chloroform, CAS: 67-66-3



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

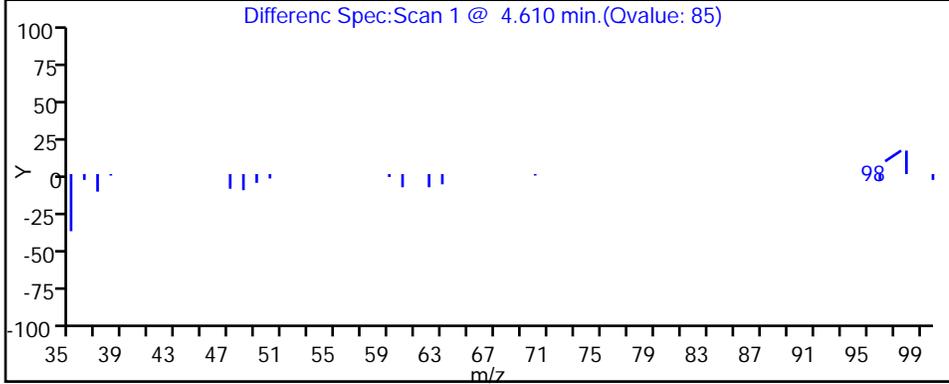
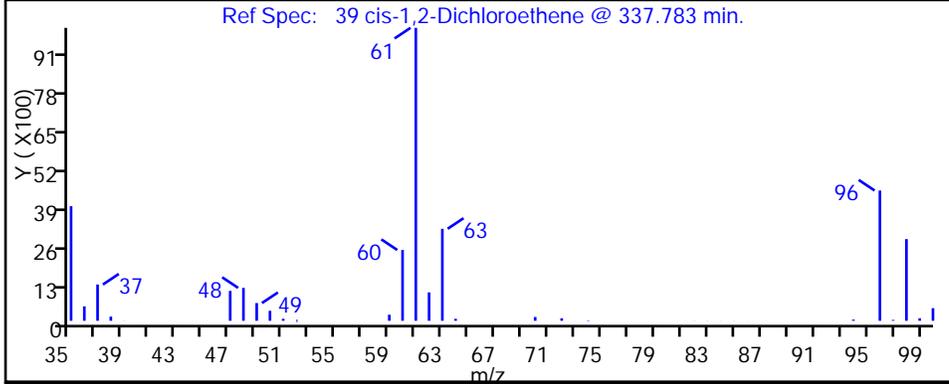
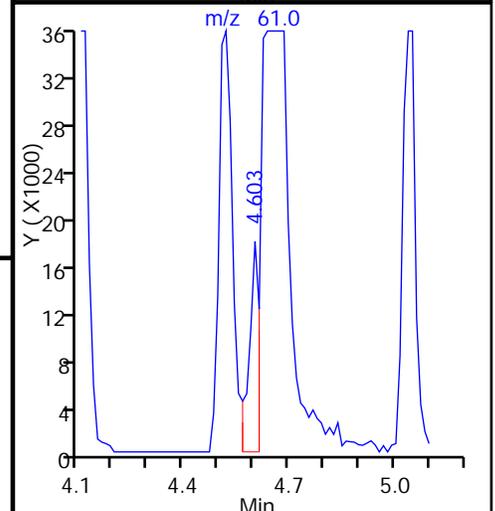
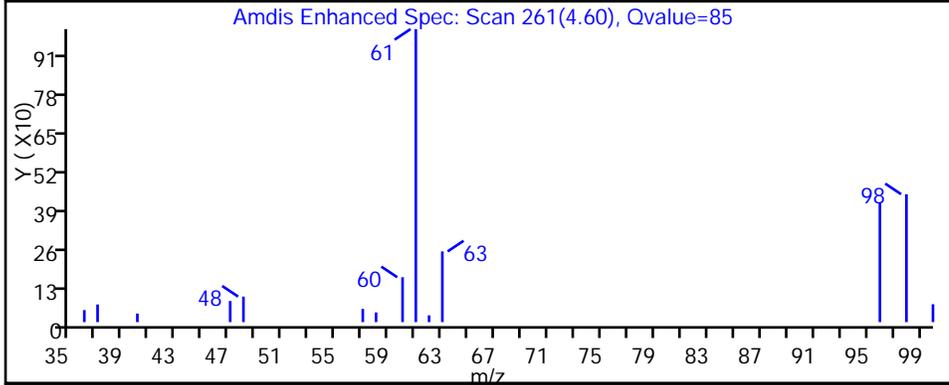
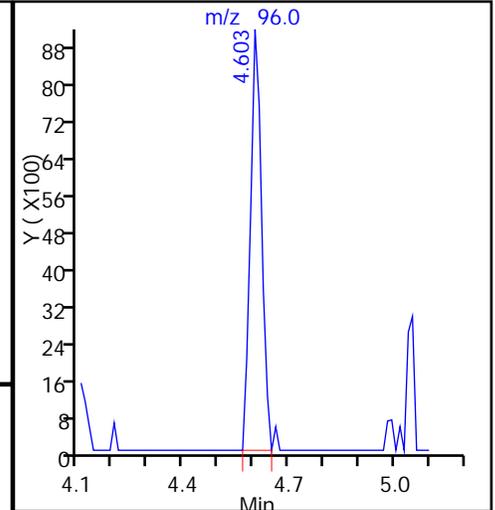
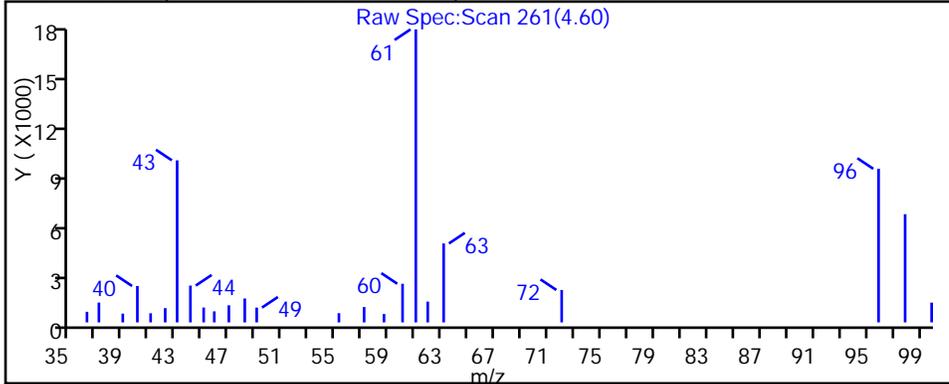
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

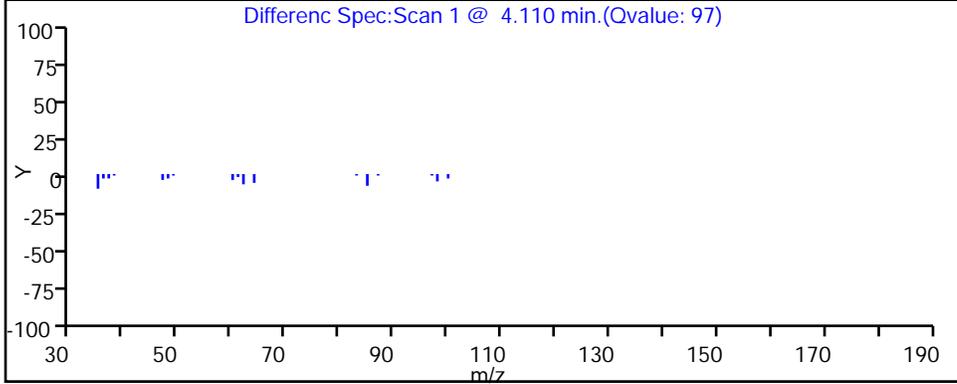
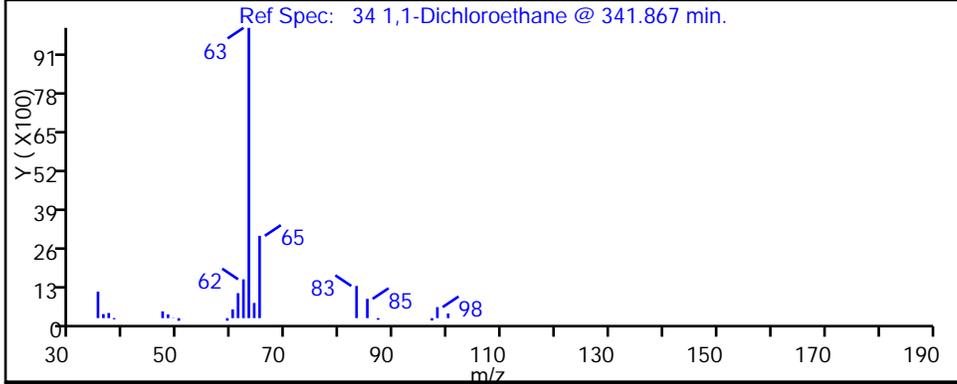
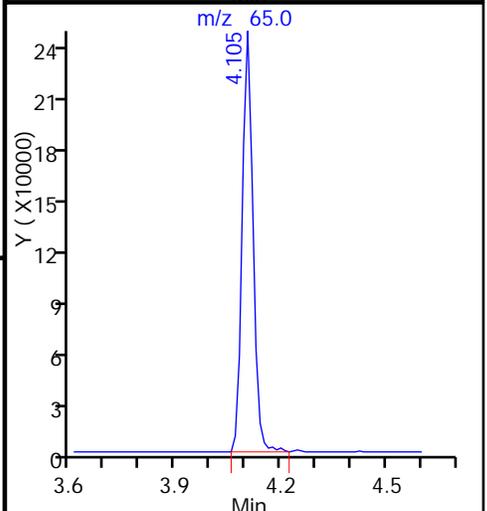
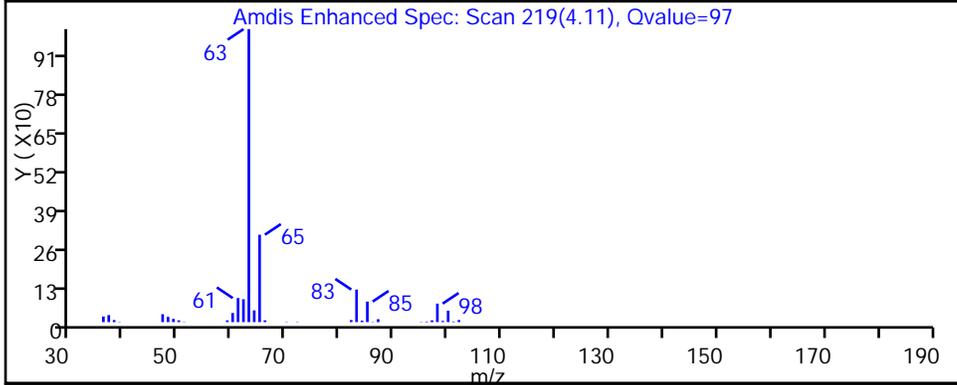
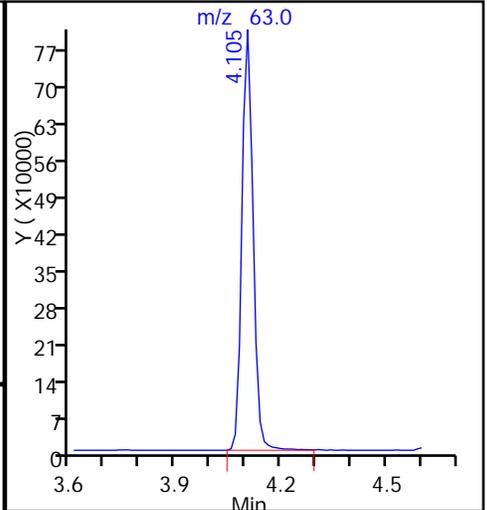
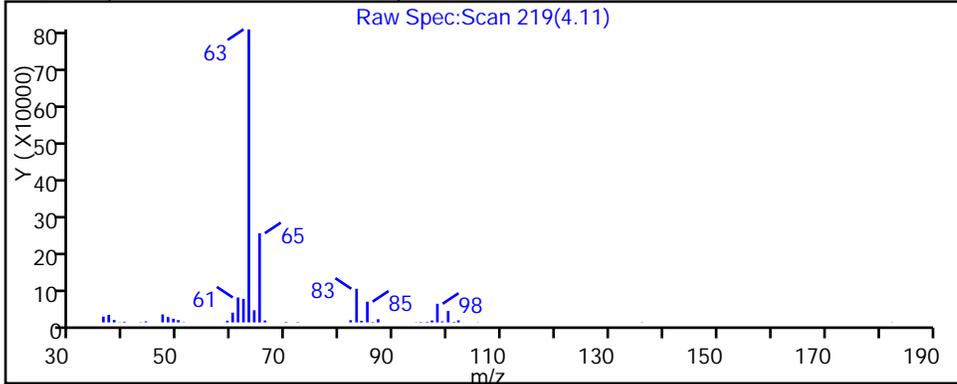
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

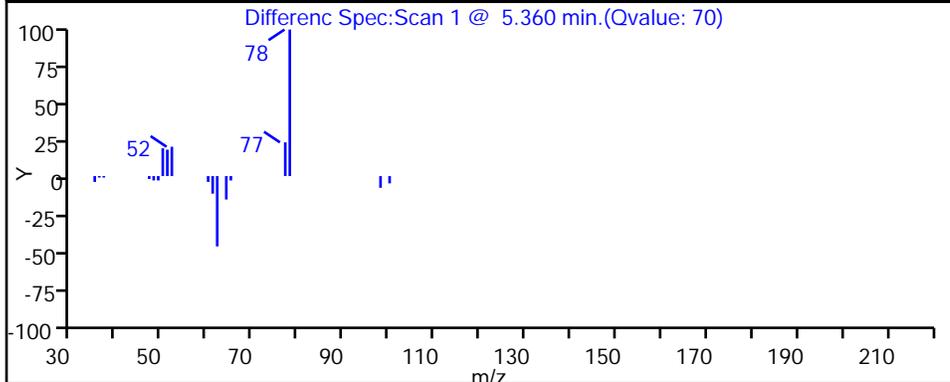
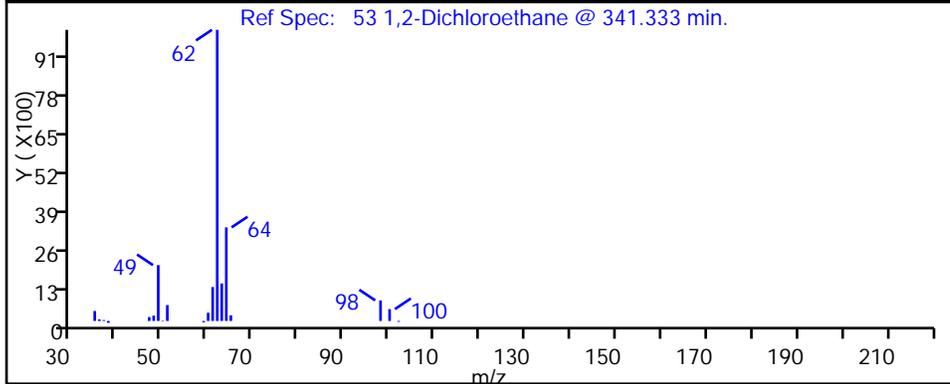
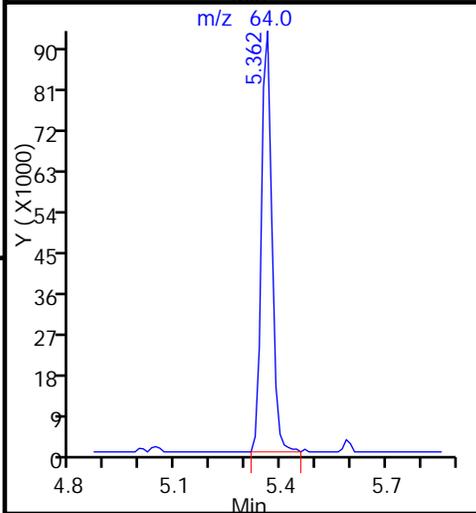
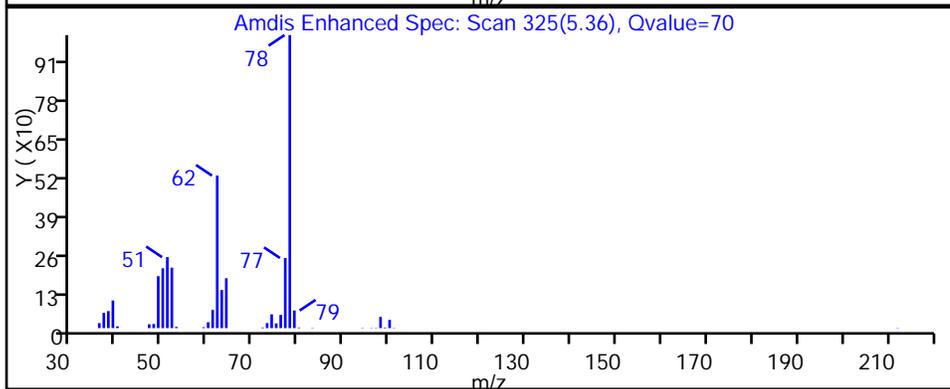
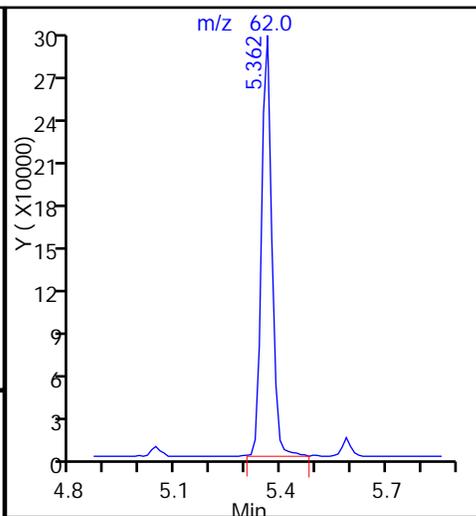
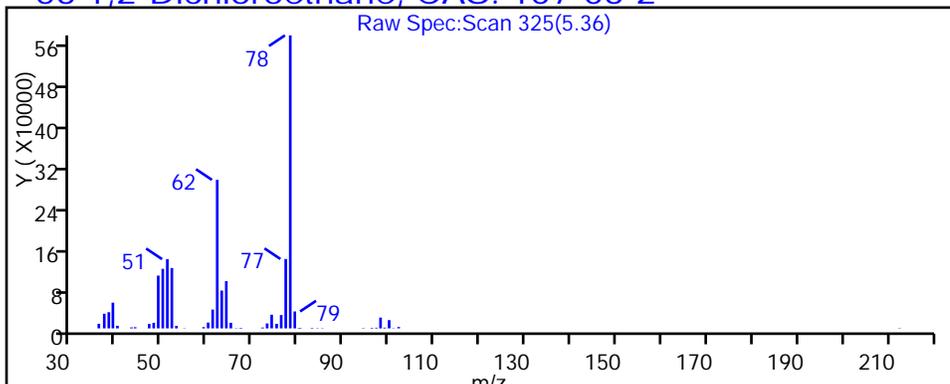
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,2-Dichloroethane, CAS: 107-06-2



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

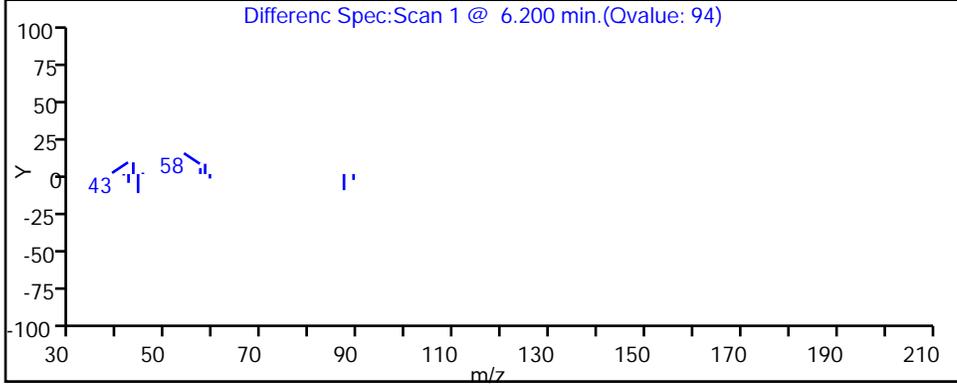
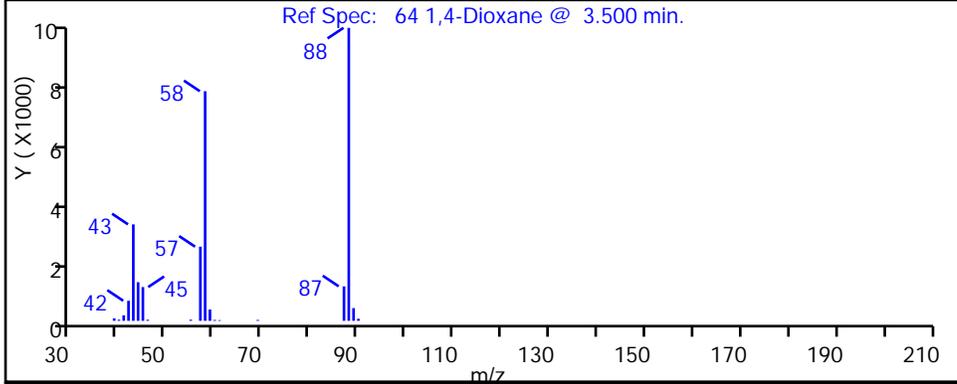
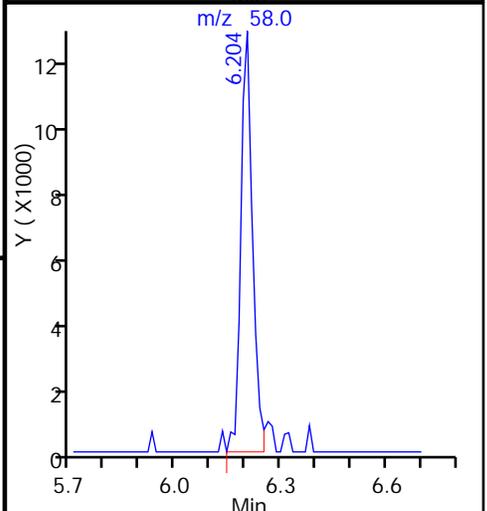
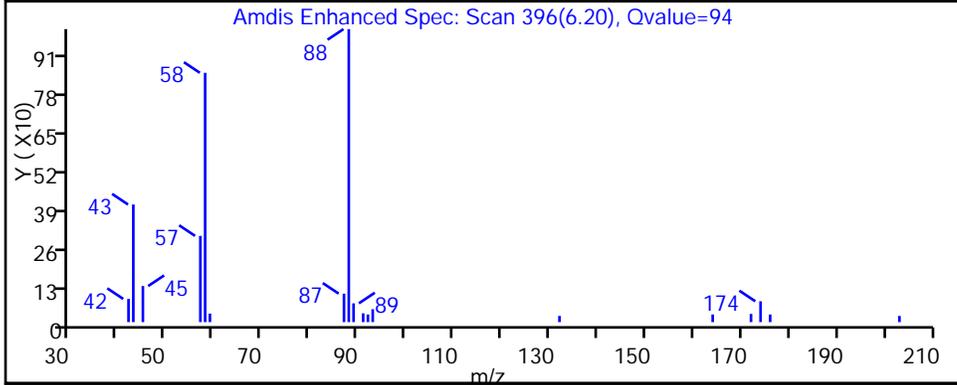
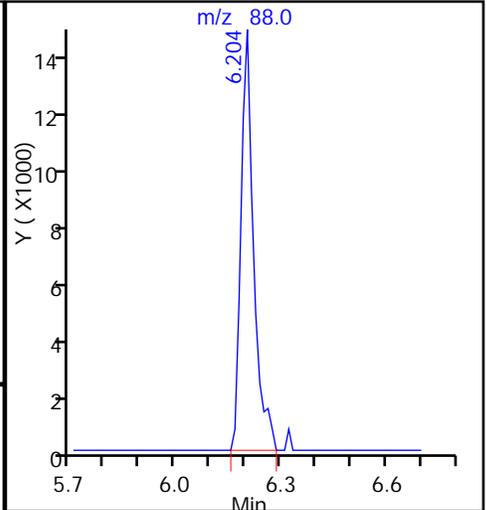
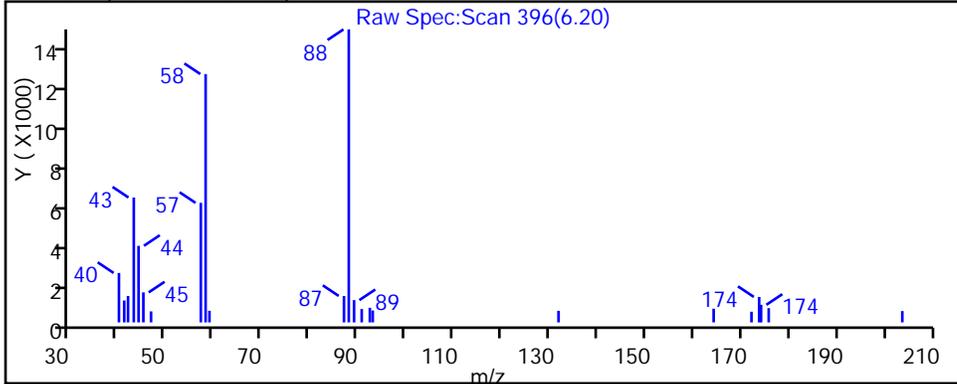
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 1,4-Dioxane, CAS: 123-91-1



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

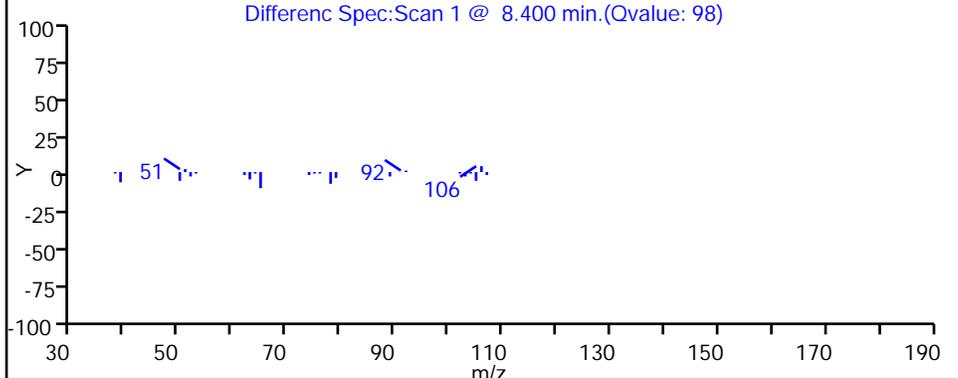
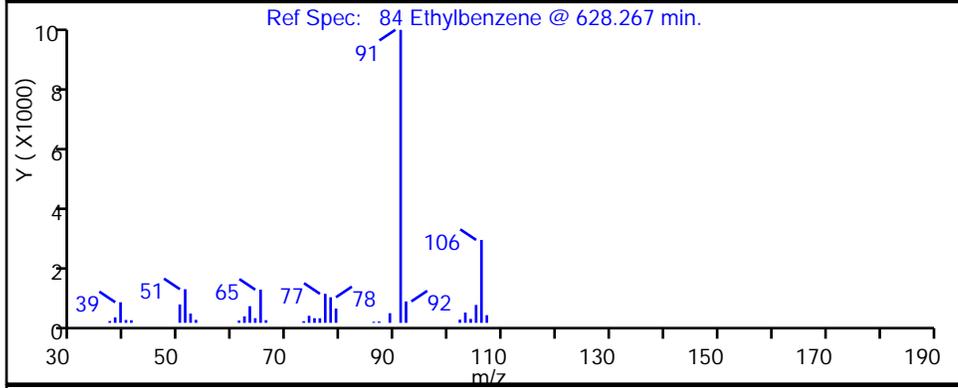
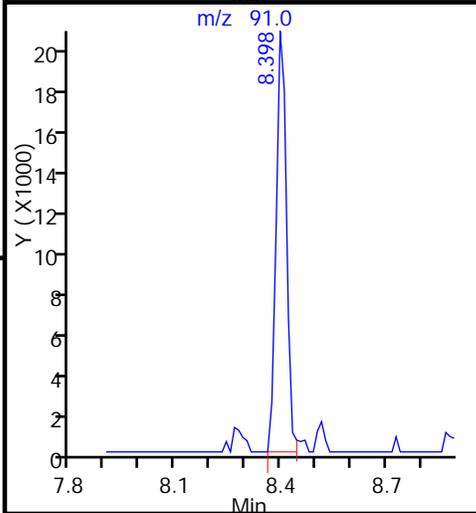
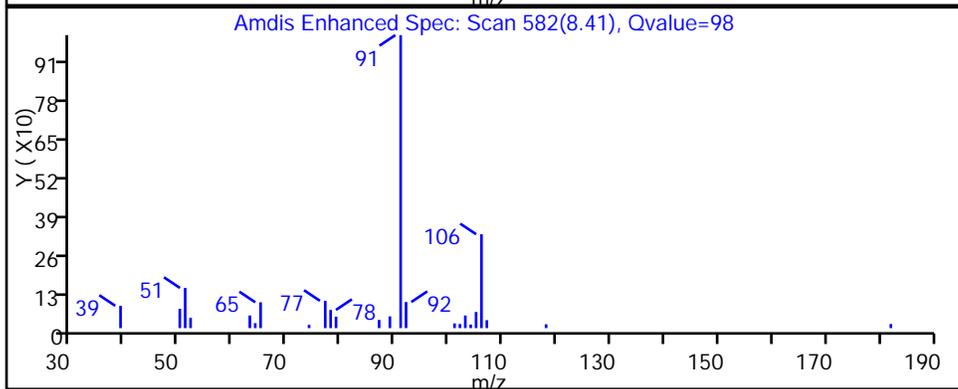
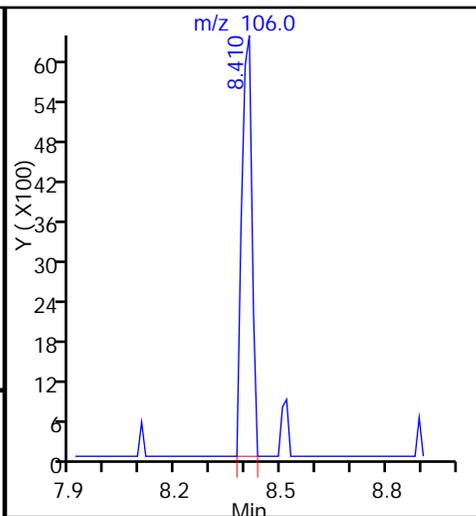
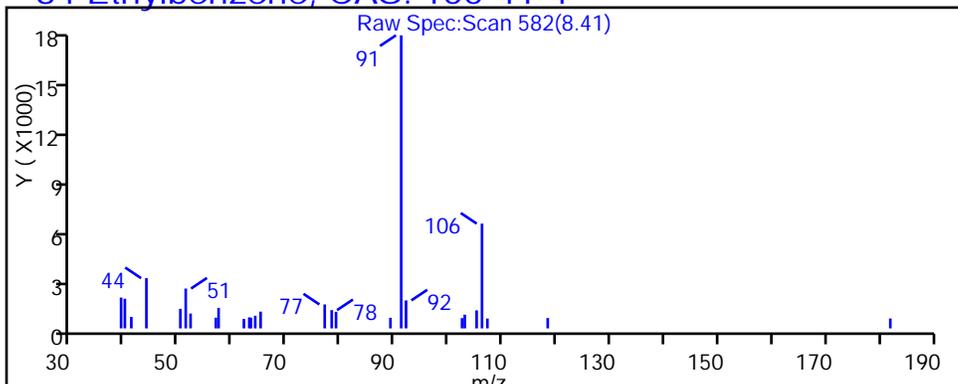
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

84 Ethylbenzene, CAS: 100-41-4



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

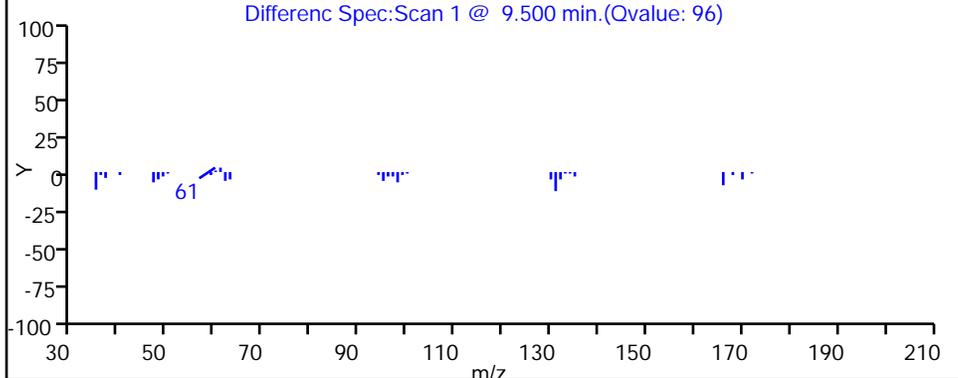
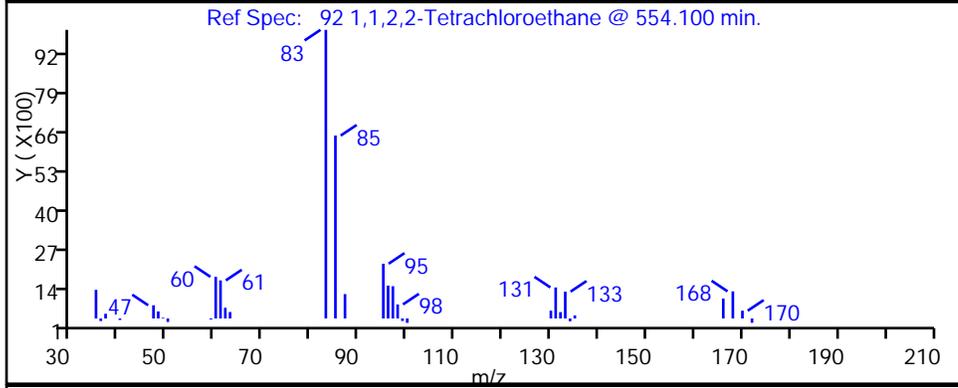
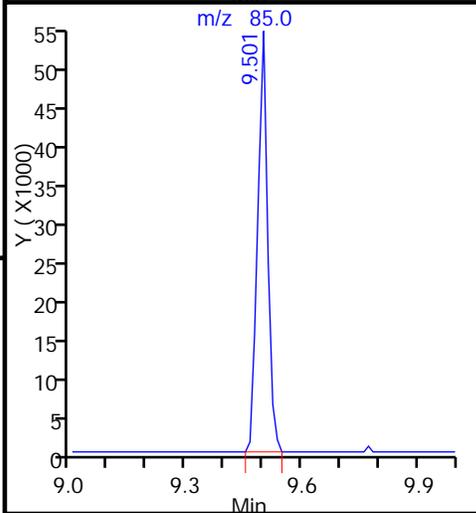
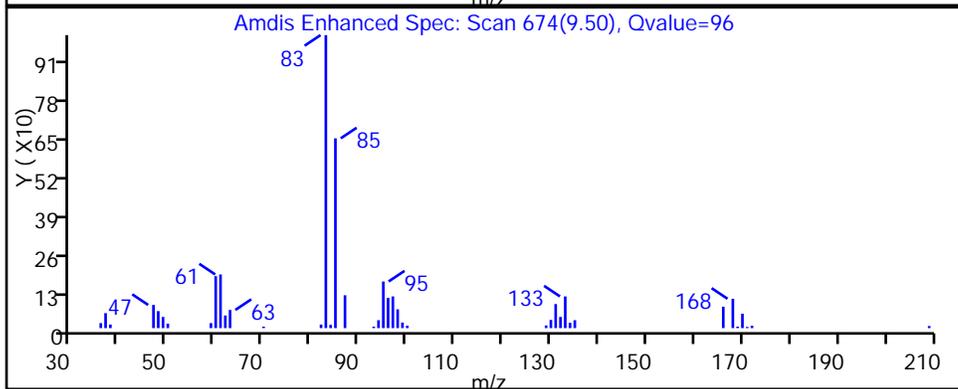
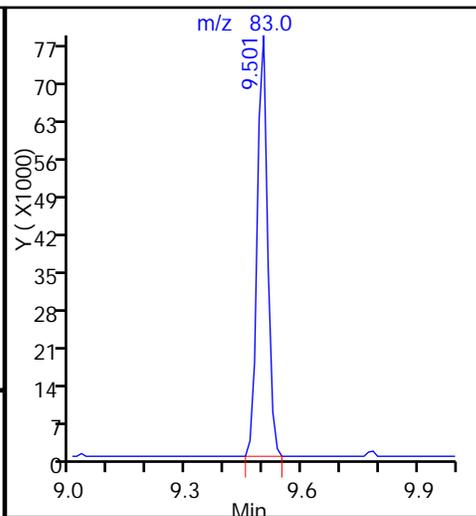
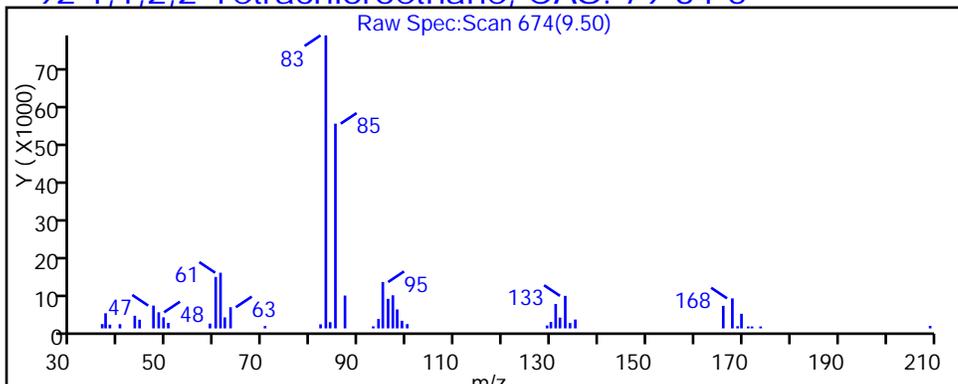
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

92 1,1,2,2-Tetrachloroethane, CAS: 79-34-5



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

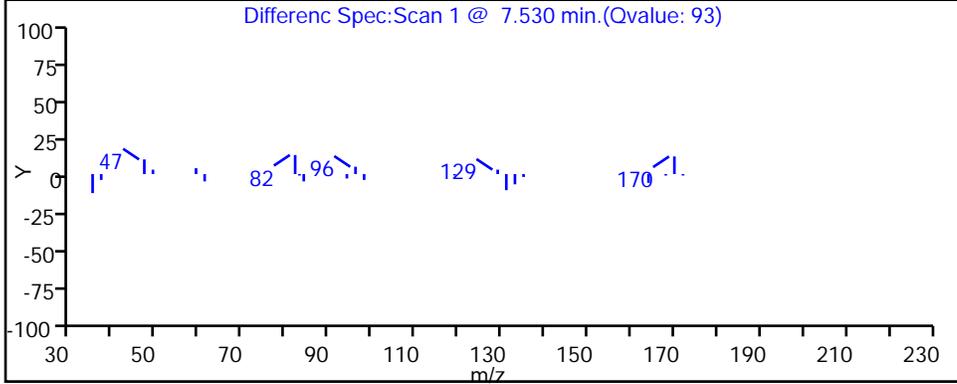
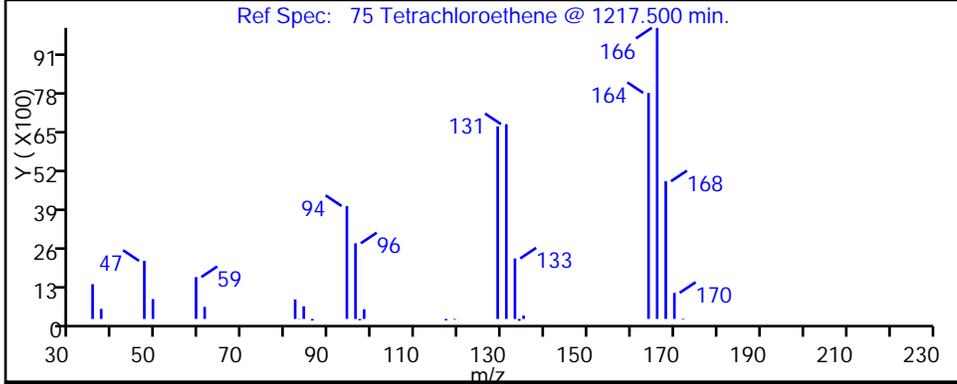
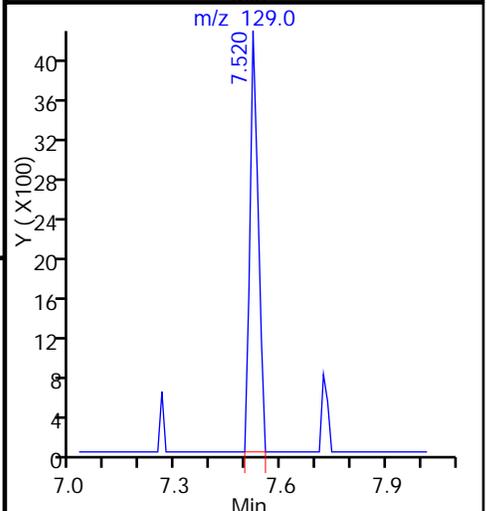
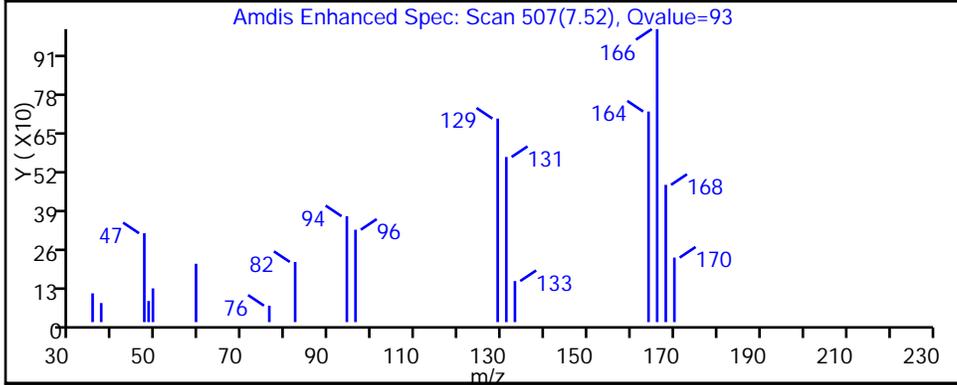
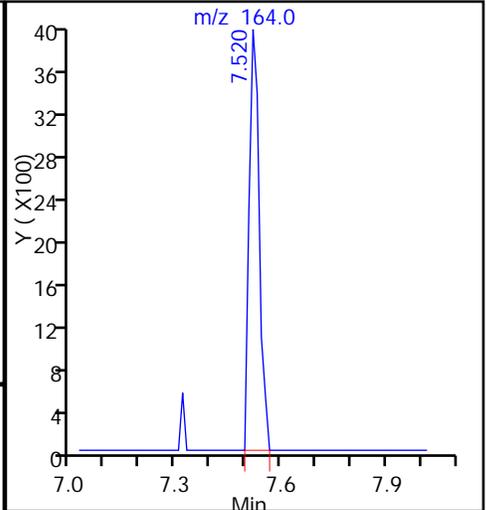
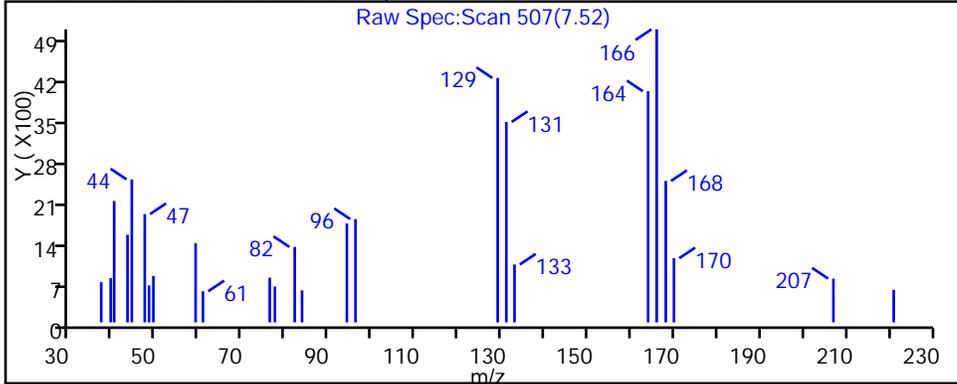
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 75 Tetrachloroethene, CAS: 127-18-4



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

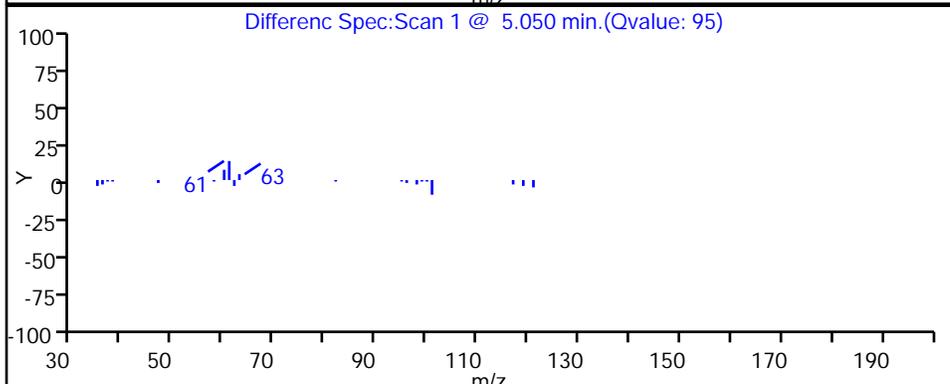
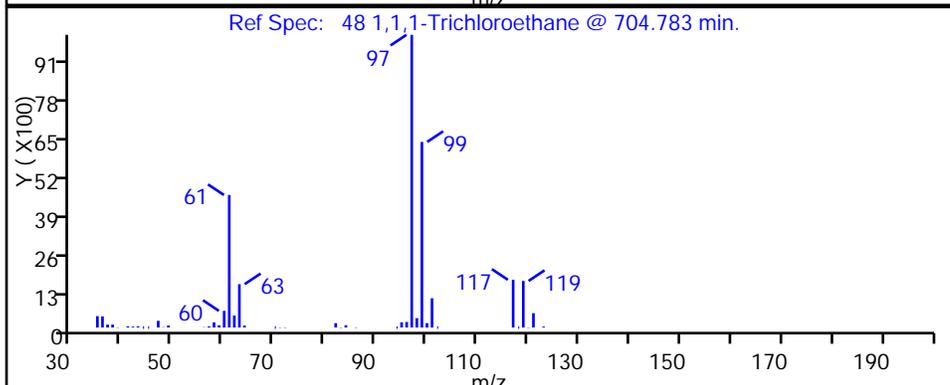
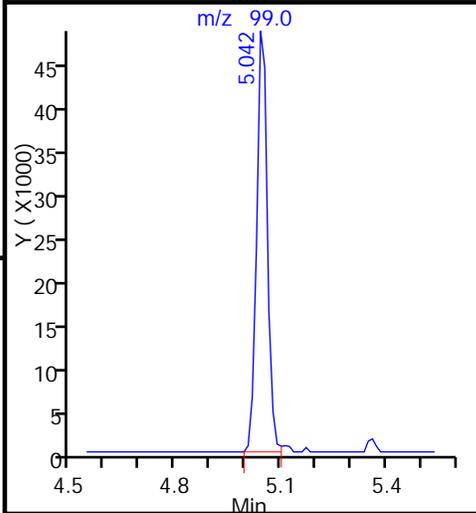
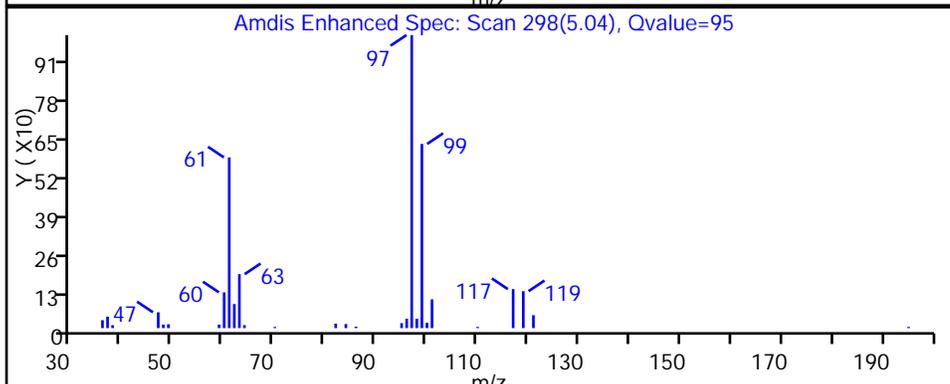
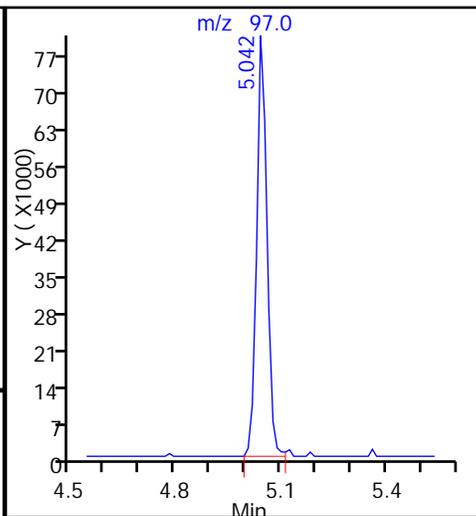
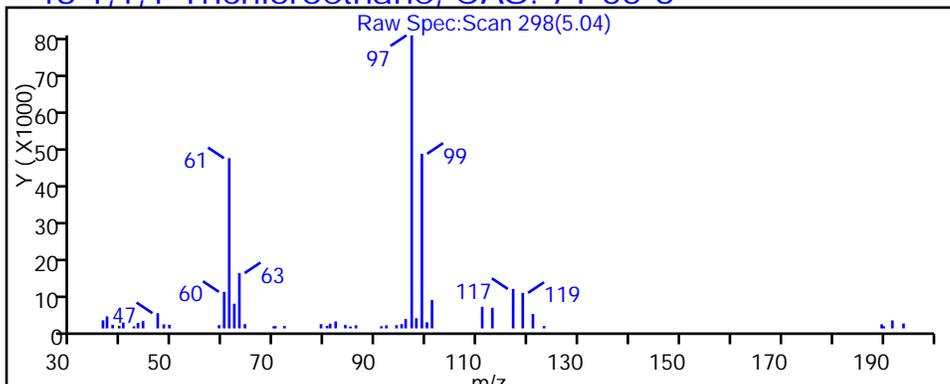
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 48 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

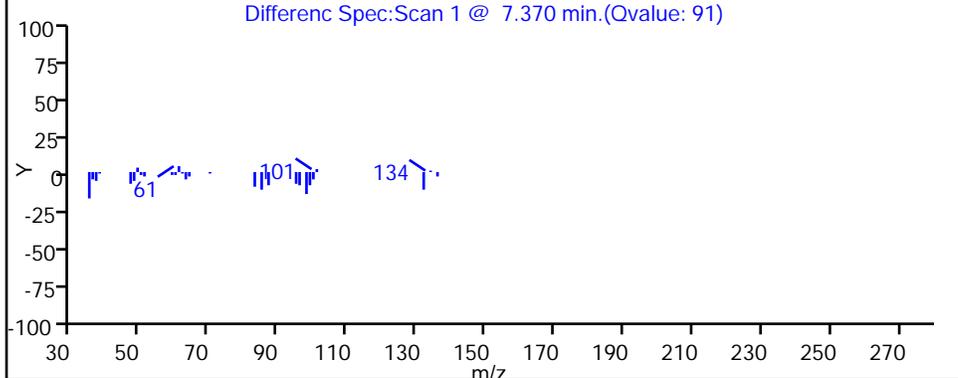
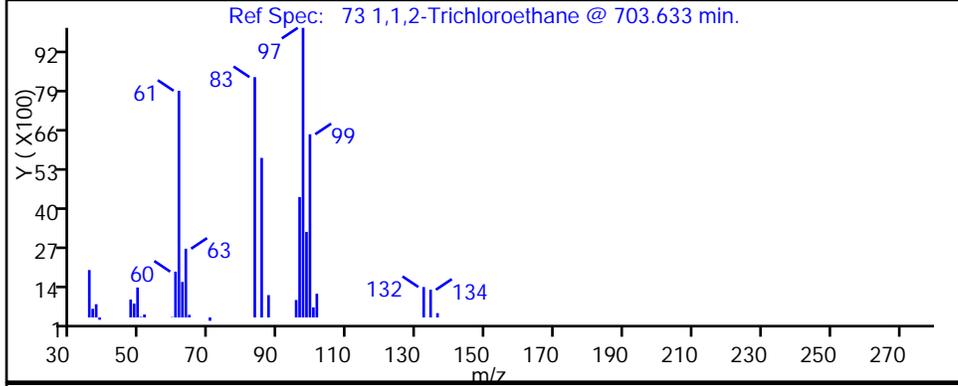
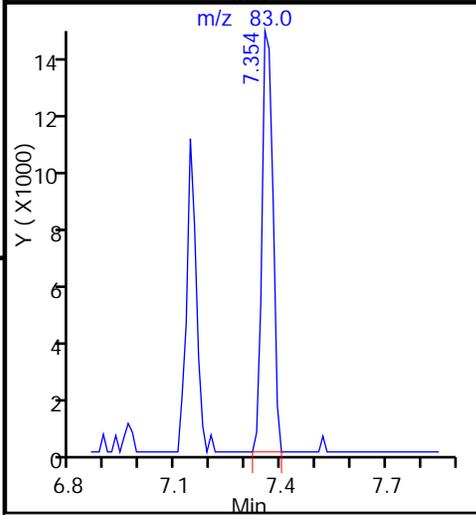
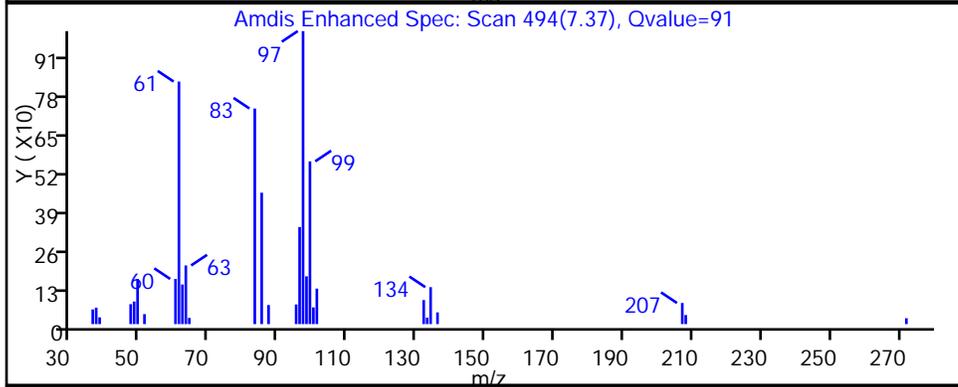
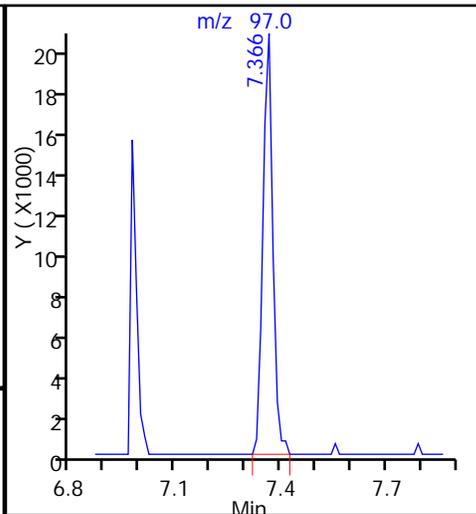
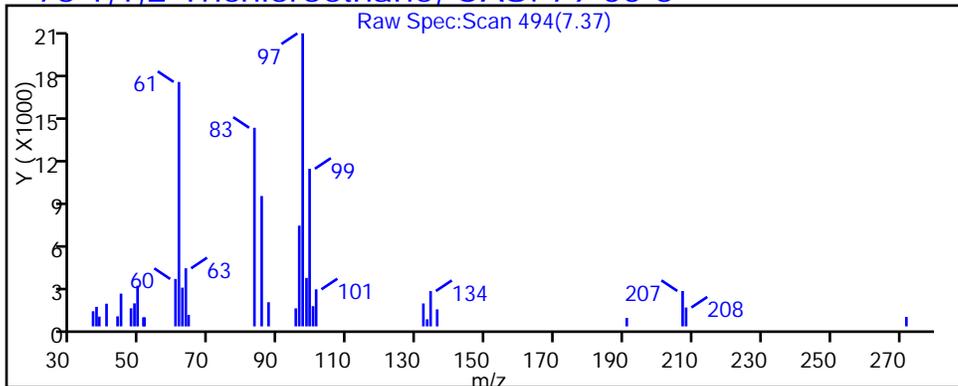
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 73 1,1,2-Trichloroethane, CAS: 79-00-5



TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0025.D

Injection Date: 03-Dec-2014 12:58:30

Instrument ID: A3UX16

Lims ID: 240-44867-A-1

Lab Sample ID: 240-44867-1

Client ID: EFFLUENT/112514

Operator ID: 1904

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

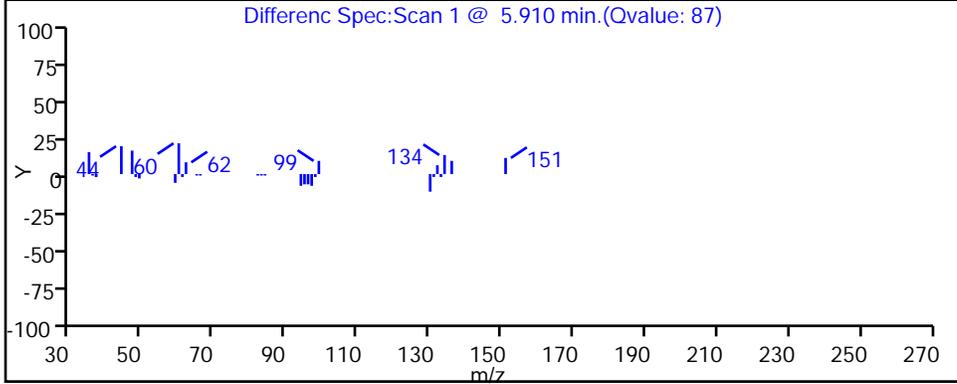
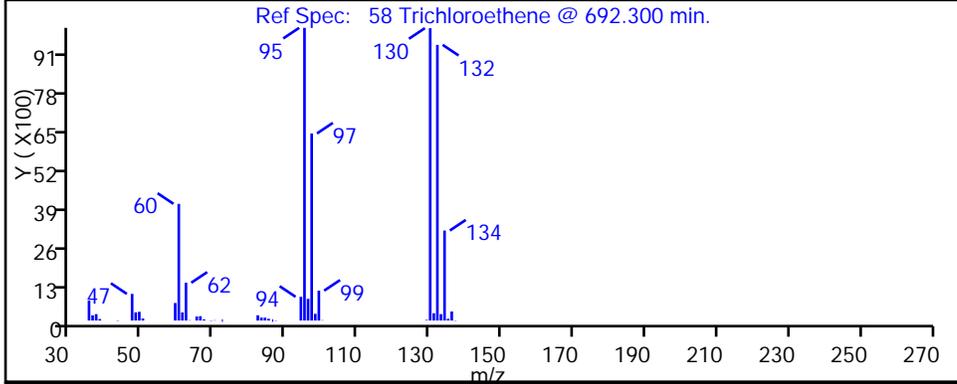
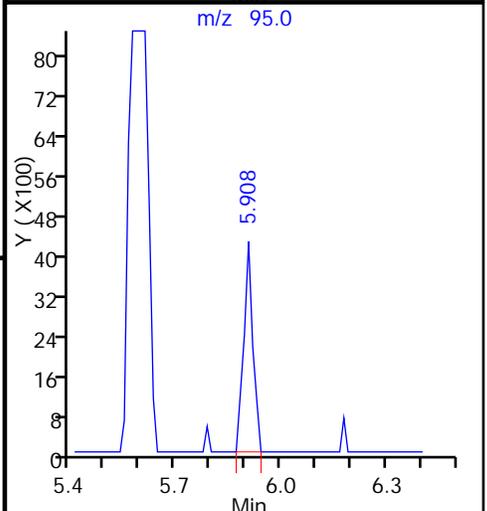
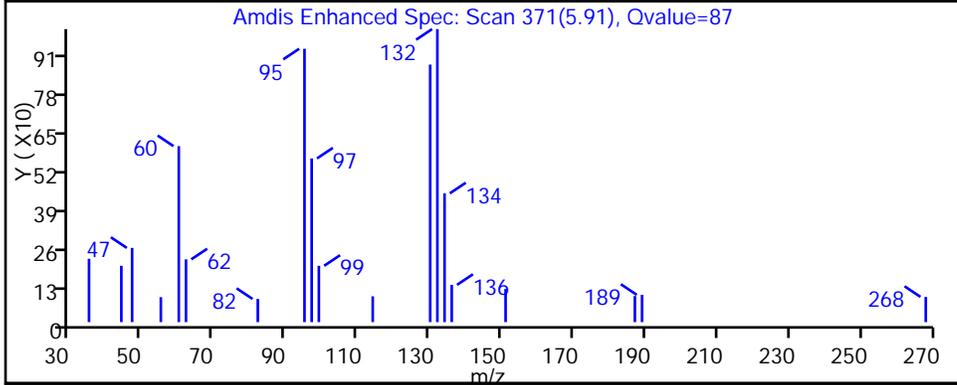
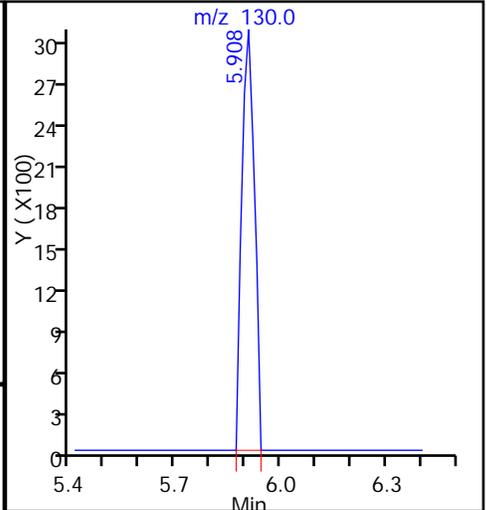
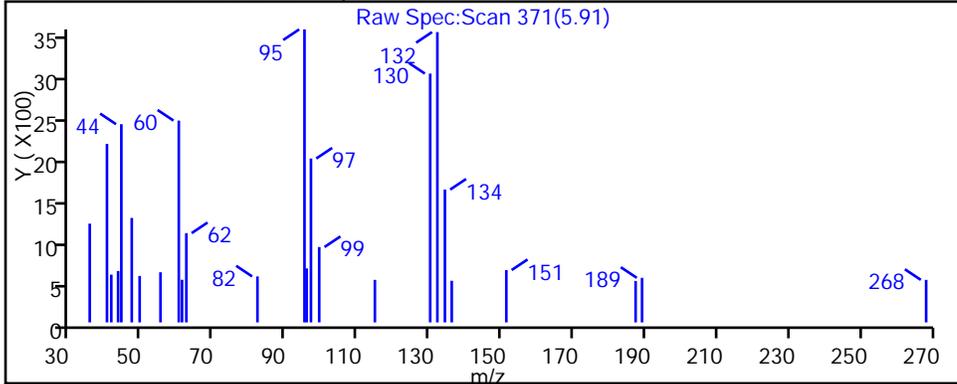
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 58 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: TB01/112514 Lab Sample ID: 240-44867-2  
 Matrix: Water Lab File ID: UXM0023.D  
 Analysis Method: 8260B Date Collected: 11/25/2014 00:00  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 11:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		10	3.4
75-05-8	Acetonitrile	ND		20	9.2
107-02-8	Acrolein	ND	*	20	1.4
107-13-1	Acrylonitrile	ND		20	6.3
71-43-2	Benzene	ND		1.0	0.24
75-27-4	Bromodichloromethane	ND		1.0	0.15
75-25-2	Bromoform	ND		1.0	0.56
74-83-9	Bromomethane	ND		1.0	0.63
78-93-3	2-Butanone	ND		10	4.1
75-15-0	Carbon disulfide	ND		1.0	0.28
56-23-5	Carbon tetrachloride	ND		1.0	0.17
108-90-7	Chlorobenzene	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.33
67-66-3	Chloroform	ND		1.0	0.21
74-87-3	Chloromethane	ND		1.0	0.44
126-99-8	Chloroprene	ND		2.0	0.26
107-05-1	3-Chloro-1-propene	ND		2.0	0.84
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
124-48-1	Dibromochloromethane	ND		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.82
74-95-3	Dibromomethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.50
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
75-35-4	1,1-Dichloroethene	ND		1.0	0.45
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.22
123-91-1	1,4-Dioxane	ND		50	40
100-41-4	Ethylbenzene	ND		1.0	0.23
106-93-4	Ethylene Dibromide	ND		1.0	0.19
97-63-2	Ethyl methacrylate	ND		1.0	0.44
591-78-6	2-Hexanone	ND		10	3.9
74-88-4	Iodomethane	ND		1.0	0.42
78-83-1	Isobutanol	ND		50	12
126-98-7	Methacrylonitrile	ND		2.0	0.70

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: TB01/112514 Lab Sample ID: 240-44867-2  
 Matrix: Water Lab File ID: UXM0023.D  
 Analysis Method: 8260B Date Collected: 11/25/2014 00:00  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 11:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-09-2	Methylene Chloride	ND		1.0	0.28
80-62-6	Methyl methacrylate	ND		2.0	0.99
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	3.6
107-12-0	Propionitrile	ND		4.0	0.95
100-42-5	Styrene	ND		1.0	0.45
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.22
127-18-4	Tetrachloroethene	ND		1.0	0.20
108-88-3	Toluene	ND		1.0	0.22
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	0.31
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.56
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.22
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.15
75-69-4	Trichlorofluoromethane	ND		1.0	0.49
96-18-4	1,2,3-Trichloropropane	ND		1.0	0.30
108-05-4	Vinyl acetate	ND	*	2.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.29
1330-20-7	Xylenes, Total	ND		2.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		66-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		63-129
2037-26-5	Toluene-d8 (Surr)	97		74-120

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0023.D  
 Lims ID: 240-44867-A-2 Lab Sample ID: 240-44867-2  
 Client ID: TB01/112514  
 Sample Type: Client  
 Inject. Date: 03-Dec-2014 11:56:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038119-011  
 Operator ID: 1904 Instrument ID: A3UX16  
 Method: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 13:25:25 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: quayler

Date: 03-Dec-2014 12:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1314199	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.279	0.001	88	999556	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	515445	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.007	5.006	0.001	93	318666	11.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.303	5.291	0.012	0	422750	11.8	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	95	1299820	11.1	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	90	463668	11.0	
9 Dichlorodifluoromethane	85		1.615				ND	
10 Chloromethane	50		1.769				ND	
11 Vinyl chloride	62		1.888				ND	
13 Bromomethane	94		2.220				ND	
14 Chloroethane	64		2.326				ND	
16 Trichlorofluoromethane	101		2.575				ND	
18 Acrolein	56		2.943				ND	
19 1,1-Dichloroethene	96		3.050				ND	
21 Acetone	43	3.097	3.085	0.012	94	11588	1.23	
23 Iodomethane	142		3.192				ND	
24 Carbon disulfide	76		3.263				ND	
25 Acetonitrile	41		3.334				ND	
26 3-Chloro-1-propene	76		3.382				ND	
28 Methylene Chloride	84	3.489	3.489	0.000	82	4493	0.1384	
30 Acrylonitrile	53		3.690				ND	
32 trans-1,2-Dichloroethene	96		3.738				ND	
34 1,1-Dichloroethane	63		4.105				ND	
35 Vinyl acetate	43		4.141				ND	
37 2-Chloro-1,3-butadiene	53		4.188				ND	
39 cis-1,2-Dichloroethene	96		4.603				ND	
40 2-Butanone (MEK)	43		4.603				ND	
42 Propionitrile	54		4.651				ND	
44 Methacrylonitrile	41		4.781				ND	
47 Chloroform	83		4.864				ND	
48 1,1,1-Trichloroethane	97		5.042				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.196				ND	
52 Isobutyl alcohol	41		5.232				ND	
54 Benzene	78		5.362				ND	
53 1,2-Dichloroethane	62		5.362				ND	
58 Trichloroethene	130		5.908				ND	
61 1,2-Dichloropropane	63		6.097				ND	
62 Methyl methacrylate	41		6.169				ND	
63 Dibromomethane	93		6.192				ND	
64 1,4-Dioxane	88		6.204				ND	
65 Dichlorobromomethane	83		6.323				ND	
68 cis-1,3-Dichloropropene	75		6.714				ND	
69 4-Methyl-2-pentanone (MIBK)	43		6.833				ND	
70 Toluene	91		7.022				ND	
71 trans-1,3-Dichloropropene	75		7.200				ND	
72 Ethyl methacrylate	69		7.271				ND	
73 1,1,2-Trichloroethane	97		7.366				ND	
75 Tetrachloroethene	164		7.520				ND	
76 2-Hexanone	43		7.580				ND	
78 Chlorodibromomethane	129		7.734				ND	
80 Ethylene Dibromide	107		7.852				ND	
82 Chlorobenzene	112		8.303				ND	
83 1,1,1,2-Tetrachloroethane	131		8.374				ND	
84 Ethylbenzene	106		8.398				ND	
85 m-Xylene & p-Xylene	106		8.505				ND	
86 o-Xylene	106		8.884				ND	
87 Styrene	104		8.896				ND	
88 Bromoform	173		9.074				ND	
92 1,1,2,2-Tetrachloroethane	83		9.501				ND	
95 1,2,3-Trichloropropane	110		9.548				ND	
94 trans-1,4-Dichloro-2-buten	53		9.560				ND	
113 1,2-Dibromo-3-Chloropropan	157		11.671				ND	
S 131 1,2-Dichloroethene, Total	96		1.140				ND	
S 133 Xylenes, Total	106		16.530				ND	

**Reagents:**

VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00061	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00035	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0023.D

Injection Date: 03-Dec-2014 11:56:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: 240-44867-A-2

Lab Sample ID: 240-44867-2

Worklist Smp#: 11

Client ID: TB01/112514

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

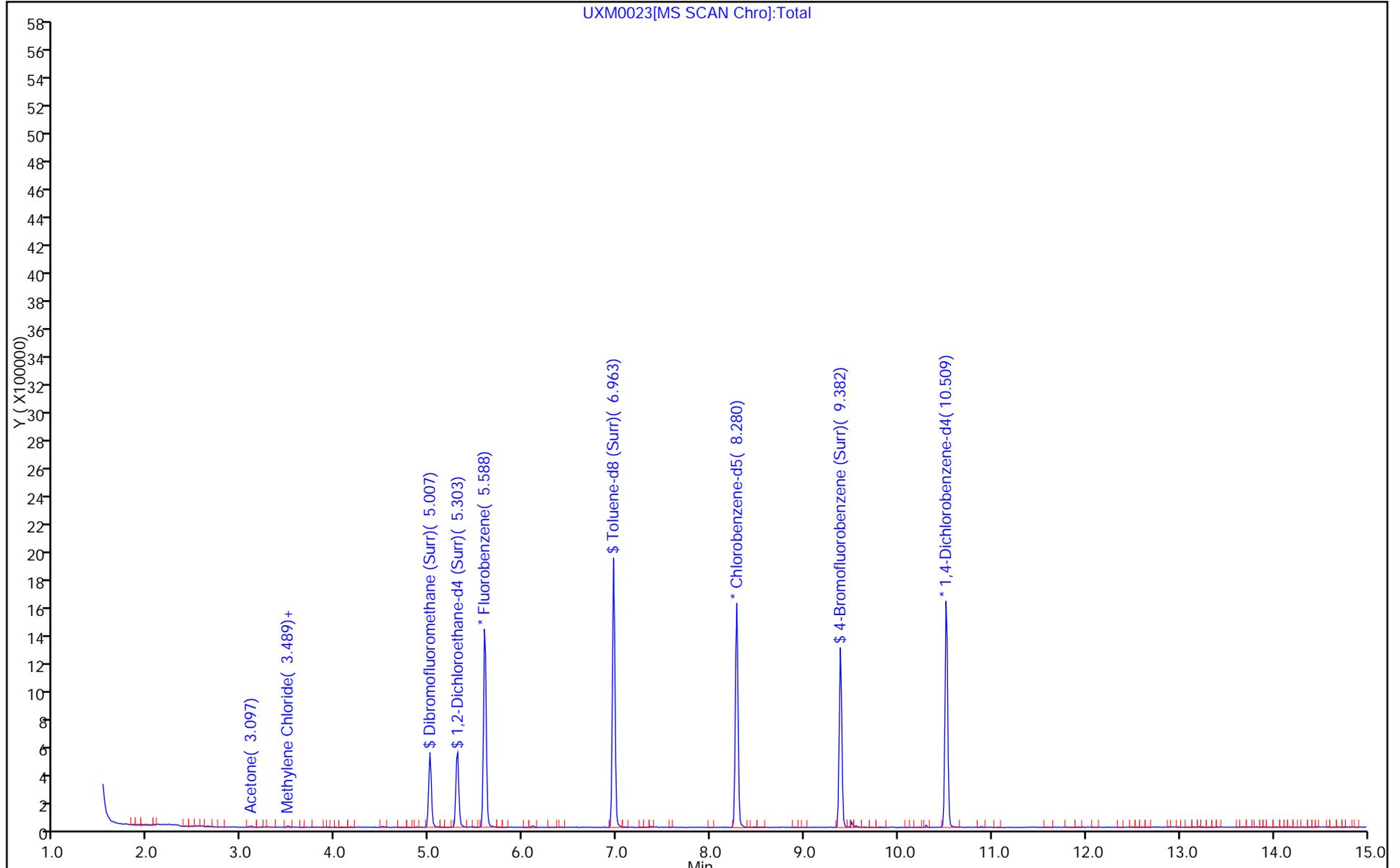
ALS Bottle#: 10

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-158775/7	UXM9942.D
Level 2	STD8260 240-158775/6	UXM9941.D
Level 3	STD8260 240-158775/5	UXM9940.D
Level 4	STD8260 240-158775/4	UXM9939.D
Level 5	STD8260 240-158775/3	UXM9938.D
Level 6	STD8260 240-158775/2	UXM9937.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2716 0.2514	0.2711	0.2853	0.2726	0.2978	Ave		0.2750			5.7		15.0				
Chloromethane	0.3239 0.3190	0.3230	0.3251	0.3061	0.3274	Ave		0.3208		0.1000	2.4		15.0				
Vinyl chloride	0.3439 0.3223	0.3419	0.3313	0.3164	0.3430	Ave		0.3331			3.5		15.0				
Butadiene	0.3604 0.3199	0.3758	0.3579	0.3384	0.3624	Ave		0.3525			5.7		15.0				
Bromomethane	0.1173 0.1166	0.1144	0.1090	0.1243	0.1235	Ave		0.1175			4.9		15.0				
Chloroethane	0.1604 0.1644	0.1779	0.1603	0.1639	0.1720	Ave		0.1665			4.2		15.0				
Dichlorofluoromethane	0.3213 0.3100	0.2982	0.2746	0.3151	0.3384	Ave		0.3096			7.0		15.0				
Trichlorofluoromethane	0.2719 0.2618	0.2749	0.2922	0.2908	0.3193	Ave		0.2852			7.1		15.0				
Ethyl ether	0.2057 0.2351	0.2161	0.2188	0.2142	0.2181	Ave		0.2180			4.4		15.0				
Acrolein	0.0153 0.0157	0.0146	0.0139	0.0145	0.0151	Ave		0.0148			4.3		15.0				
1,1-Dichloroethene	0.2356 0.2280	0.2136	0.2266	0.2212	0.2305	Ave		0.2259			3.4		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2256 0.1735	0.1760	0.1984	0.1867	0.1945	Ave		0.1925			9.9		15.0				
Acetone	0.0843 0.0660	0.0776	0.0761	0.0645	0.0633	Ave		0.0720			12.0		15.0				
Iodomethane	0.3224 0.3551	0.3377	0.3372	0.3427	0.3542	Ave		0.3415			3.6		15.0				
Carbon disulfide	0.7473 0.7473	0.7174	0.7163	0.7403	0.7724	Ave		0.7401			2.9		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1334 0.1625	0.1487	0.1425	0.1479	0.1531	Ave		0.1480			6.6		15.0				
Methyl acetate	0.1550 0.1744	0.1501	0.1537	0.1538	0.1584	Ave		0.1576			5.5		15.0				
Methylene Chloride	0.2539 0.2490	0.2546	0.2411	0.2384	0.2450	Ave		0.2470			2.7		15.0				
2-Methyl-2-propanol	0.0155 0.0180	0.0139	0.0161	0.0158	0.0159	Ave		0.0159			8.3		15.0				
Acrylonitrile	0.0728 0.0905	0.0766	0.0800	0.0812	0.0830	Ave		0.0807			7.5		15.0				
trans-1,2-Dichloroethene	0.2585 0.2563	0.2408	0.2428	0.2467	0.2614	Ave		0.2511			3.5		15.0				
Methyl tert-butyl ether	0.5730 0.7170	0.6041	0.6558	0.6369	0.6565	Ave		0.6406			7.7		15.0				
Hexane	0.0639 0.0549	0.0539	0.0589	0.0571	0.0657	Ave		0.0591			8.1		15.0				
1,1-Dichloroethane	0.4914 0.5328	0.5051	0.4903	0.5045	0.5070	Ave		0.5052		0.1000	3.0		15.0				
Vinyl acetate	0.1218 0.1319	0.0919	0.1150	0.1159	0.1209	Ave		0.1162			11.0		15.0				
2-Butanone	0.1082 0.0893	0.0976	0.0893	0.0824	0.0778	Ave		0.0908			12.0		15.0				
cis-1,2-Dichloroethene	0.2492 0.2813	0.2609	0.2660	0.2646	0.2746	Ave		0.2661			4.2		15.0				
2,2-Dichloropropane	0.3285 0.3048	0.3085	0.3008	0.3068	0.3254	Ave		0.3125			3.7		15.0				
Chlorobromomethane	0.1201 0.1276	0.1156	0.1168	0.1220	0.1211	Ave		0.1205			3.6		15.0				
Tetrahydrofuran	0.0713 0.0569	0.0597	0.0527	0.0537	0.0519	Ave		0.0577			13.0		15.0				
Chloroform	0.4046 0.4341	0.3975	0.4022	0.4079	0.4158	Ave		0.4103			3.2		15.0				
1,1,1-Trichloroethane	0.3467 0.3550	0.3400	0.3480	0.3512	0.3673	Ave		0.3514			2.6		15.0				
Cyclohexane	0.4950 0.4709	0.4505	0.4862	0.4946	0.5243	Ave		0.4869			5.1		15.0				
1,1-Dichloropropene	0.3209 0.3198	0.2816	0.3064	0.3171	0.3318	Ave		0.3129			5.6		15.0				
Carbon tetrachloride	0.3127 0.3235	0.2940	0.3224	0.3173	0.3355	Ave		0.3176			4.4		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6																
Isobutanol	0.0043 0.0056	0.0040	0.0048	0.0046	0.0049	Ave		0.0047			12.0		15.0				
1,2-Dichloroethane	0.3411 0.3867	0.3309	0.3528	0.3547	0.3591	Ave		0.3542			5.4		15.0				
Benzene	1.0128 1.0770	0.9316	0.9753	0.9617	1.0086	Ave		0.9945			5.1		15.0				
n-Heptane	0.5957	0.3768	0.2345	0.1959	0.1870	Lin1	0.4264	0.1602						0.9970		0.9900	
Trichloroethene	0.2589 0.2593	0.2394	0.2497	0.2459	0.2606	Ave		0.2523			3.4		15.0				
Methylcyclohexane	0.3783 0.3381	0.3395	0.3510	0.3531	0.3909	Ave		0.3585			6.0		15.0				
1,2-Dichloropropane	0.2449 0.2829	0.2468	0.2532	0.2510	0.2640	Ave		0.2572			5.6		15.0				
Dibromomethane	0.1162 0.1350	0.1251	0.1255	0.1239	0.1251	Ave		0.1251			4.8		15.0				
1,4-Dioxane	0.0014 0.0015	0.0017	0.0015	0.0015	0.0015	Ave		0.0015			6.2		15.0				
Bromodichloromethane	0.2773 0.3246	0.2950	0.2925	0.2974	0.3016	Ave		0.2981			5.2		15.0				
2-Chloroethyl vinyl ether	0.1162 0.1399	0.1177	0.1222	0.1216	0.1207	Ave		0.1231			7.0		15.0				
cis-1,3-Dichloropropene	0.2903 0.3824	0.3200	0.3206	0.3327	0.3421	Ave		0.3313			9.2		15.0				
4-Methyl-2-pentanone (MIBK)	0.1850 0.1903	0.1744	0.1829	0.1703	0.1685	Ave		0.1786			4.9		15.0				
Toluene	1.3654 1.5877	1.3139	1.3612	1.3935	1.4847	Ave		1.4178			7.1		15.0				
trans-1,3-Dichloropropene	0.3585 0.4416	0.3610	0.3517	0.3816	0.3963	Ave		0.3818			8.8		15.0				
Ethyl methacrylate	0.2502 0.3260	0.2934	0.2970	0.2857	0.2965	Ave		0.2915			8.4		15.0				
1,1,2-Trichloroethane	0.2528 0.2634	0.2444	0.2359	0.2393	0.2429	Ave		0.2464			4.1		15.0				
1,3-Dichloropropane	0.3983 0.4840	0.4159	0.4239	0.4357	0.4385	Ave		0.4327			6.7		15.0				
Tetrachloroethene	0.2659 0.2743	0.2416	0.2573	0.2618	0.2731	Ave		0.2623			4.6		15.0				
2-Hexanone	0.1493 0.1699	0.1741	0.1693	0.1657	0.1572	Ave		0.1642			5.6		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.2469 0.3223	0.2288	0.2617	0.2806	0.2869	Ave		0.2712			12.0		15.0				
Ethylene Dibromide	0.2332 0.2615	0.2457	0.2398	0.2430	0.2440	Ave		0.2445			3.9		15.0				
Chlorobenzene	0.9146 0.9618	0.8545	0.8523	0.8578	0.9039	Ave		0.8908		0.3000	4.9		15.0				
1,1,1,2-Tetrachloroethane	0.2876 0.3464	0.2915	0.3034	0.3184	0.3262	Ave		0.3123			7.2		15.0				
Ethylbenzene	0.4381 0.5171	0.4635	0.4527	0.4846	0.4849	Ave		0.4735			5.9		15.0				
m-Xylene & p-Xylene	0.5596 0.6391	0.5759	0.5683	0.5788	0.5976	Ave		0.5865			4.9		15.0				
o-Xylene	0.5863 0.6430	0.5526	0.5521	0.6020	0.6161	Ave		0.5920			6.1		15.0				
Styrene	0.8438 1.0293	0.8408	0.8680	0.9210	0.9496	Ave		0.9088			8.1		15.0				
Bromoform	0.1610 0.2061	0.1442	0.1666	0.1824	0.1835	Ave		0.1740		0.1000	12.0		15.0				
Isopropylbenzene	1.4110 1.6257	1.3441	1.3810	1.4411	1.5652	Ave		1.4614			7.6		15.0				
1,1,2,2-Tetrachloroethane	0.4895 0.5738	0.5423	0.5455	0.5603	0.5423	Ave		0.5423		0.3000	5.3		15.0				
Bromobenzene	0.5964 0.7350	0.6486	0.6438	0.6705	0.7007	Ave		0.6658			7.2		15.0				
1,2,3-Trichloropropane	0.1762 0.1868	0.1977	0.1824	0.1762	0.1680	Ave		0.1812			5.7		15.0				
trans-1,4-Dichloro-2-butene	0.1598 0.1968	0.1680	0.1565	0.1777	0.1789	Ave		0.1730			8.5		15.0				
N-Propylbenzene	0.6991 0.7499	0.6744	0.6969	0.7107	0.7317	Ave		0.7105			3.8		15.0				
2-Chlorotoluene	0.6277 0.6469	0.6078	0.5990	0.6231	0.6378	Ave		0.6237			2.9		15.0				
1,3,5-Trimethylbenzene	2.0038 2.3477	1.9593	2.0274	2.1557	2.2161	Ave		2.1183			7.0		15.0				
4-Chlorotoluene	0.6336 0.6878	0.5930	0.6317	0.6490	0.6780	Ave		0.6455			5.3		15.0				
tert-Butylbenzene	1.6722 1.9486	1.6721	1.6948	1.7626	1.9289	Ave		1.7799			7.2		15.0				
1,2,4-Trimethylbenzene	2.1773 2.4985	2.0519	2.1756	2.2552	2.3395	Ave		2.2497			6.9		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	2.5180 2.6591	2.3451	2.3540	2.4495	2.5960	Ave		2.4869			5.1		15.0				
1,3-Dichlorobenzene	1.2888 1.3811	1.2116	1.2276	1.2935	1.3049	Ave		1.2846			4.7		15.0				
4-Isopropyltoluene	2.0702 2.3567	2.0519	2.0319	2.1514	2.2945	Ave		2.1594			6.3		15.0				
1,4-Dichlorobenzene	1.3331 1.4306	1.2683	1.2735	1.3149	1.3606	Ave		1.3302			4.5		15.0				
n-Butylbenzene	1.7846 1.9345	1.7008	1.7332	1.8095	1.8951	Ave		1.8096			5.0		15.0				
1,2-Dichlorobenzene	1.1827 1.3232	1.2284	1.2313	1.2463	1.2752	Ave		1.2479			3.8		15.0				
1,2-Dibromo-3-Chloropropane	0.0933 0.1071	0.0962	0.1030	0.1039	0.1115	Ave		0.1025			6.6		15.0				
1,2,4-Trichlorobenzene	0.6913 0.6808	0.6986	0.7061	0.7240	0.7269	Ave		0.7046			2.6		15.0				
Hexachlorobutadiene	0.3662 0.2671	0.3541	0.3265	0.3338	0.3374	Ave		0.3308			10.0		15.0				
Naphthalene	1.4165 1.6864	1.4968	1.5960	1.6841	1.7222	Ave		1.6003			7.6		15.0				
1,2,3-Trichlorobenzene	0.6304 0.5679	0.6470	0.6434	0.6406	0.6492	Ave		0.6297			4.9		15.0				
Dibromofluoromethane (Surr)	0.2248 0.2320	0.1975	0.2228	0.2071	0.2261	Ave		0.2184			6.0		15.0				
1,2-Dichloroethane-d4 (Surr)	0.2679 0.2909	0.2621	0.2707	0.2663	0.2755	Ave		0.2722			3.7		15.0				
Toluene-d8 (Surr)	1.1556 1.3174	1.0568	1.1413	1.1293	1.2380	Ave		1.1731			7.8		15.0				
4-Bromofluorobenzene (Surr)	0.4356 0.4466	0.3893	0.4220	0.3921	0.4394	Ave		0.4208			5.9		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-158775/7	UXM9942.D
Level 2	STD8260 240-158775/6	UXM9941.D
Level 3	STD8260 240-158775/5	UXM9940.D
Level 4	STD8260 240-158775/4	UXM9939.D
Level 5	STD8260 240-158775/3	UXM9938.D
Level 6	STD8260 240-158775/2	UXM9937.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	37666 1521650	75769	203976	413480	877151	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	44923 1930550	90277	232483	464404	964262	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	47700 1950490	95557	236862	480060	1010399	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	49988 1936221	105029	255882	513430	1067308	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	16263 705760	31976	77908	188554	363767	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	22251 994983	49710	114605	248705	506699	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	44562 1876174	83329	196383	478058	996739	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	37710 1584681	76841	208953	441103	940593	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	28531 1422766	60399	156483	324944	642455	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	10583 475791	20404	49782	109746	222437	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	32672 1380015	59695	162043	335523	678892	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	31295 1050248	49195	141867	283284	572757	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	23388 798944	43358	108895	195679	372719	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	44718 2148950	94377	241125	519881	1043149	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	103645 4522749	200484	512163	1123136	2274878	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	18498 983539	41571	101918	224402	450806	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	107484 5277918	209724	549680	1166537	2333284	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Ave	35221 1506868	71147	172376	361596	721543	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	21457 1091823	38878	115156	239665	467344	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	101027 5478446	214099	572283	1232009	2444912	10.0 400	20.0	50.0	100	200
trans-1,2-Dichloroethene	FB	Ave	35849 1550903	67287	173616	374249	770046	1.00 40.0	2.00	5.00	10.0	20.0
Methyl tert-butyl ether	FB	Ave	79474 4339514	168841	468950	966239	1933498	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	8868 332488	15055	42136	86697	193495	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	68157 3224416	141156	350617	765285	1493211	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	16223 766115	24647	78942	168816	341747	0.960 38.4	1.92	4.80	9.60	19.2
2-Butanone	FB	Ave	30007 1081380	54529	127767	250132	458127	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	34568 1702455	72923	190180	401483	808869	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	45559 1844945	86208	215097	465438	958423	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobromomethane	FB	Ave	16665 772422	32302	83493	185017	356762	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	19772 688225	33357	75388	162887	305806	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	56115 2627297	111089	287589	618786	1224553	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	48088 2148432	95012	248838	532735	1081924	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	68661 2850085	125914	347629	750300	1544135	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	44511 1935692	78696	219097	481081	977312	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	43368 1957599	82163	230549	481385	988122	1.00 40.0	2.00	5.00	10.0	20.0
Isobutanol	FB	Ave	14837 845246	27847	86559	175443	358975	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	47305 2340398	92487	252242	538087	1057693	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	140477 6517923	260370	697370	1458971	2970638	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Lin1	82631	105312	167702	297159	550784	1.00	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	35914 1569156	66901	178539	372989	767533	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	52465 2046104	94876	250980	535670	1151291	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	33972 1712349	68981	181052	380850	777542	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	16118 817210	34959	89719	187929	368585	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	3943 186126	9407	20939	45545	85998	20.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	38467 1964658	82450	209125	451130	888393	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	32228 1693568	65813	174793	368944	710833	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	40261 2314457	89420	229219	504654	1007486	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	51314 2303544	97458	261615	516702	992630	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	135758 6717580	264684	696425	1468666	3026130	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	35640 1868432	72730	179956	402120	807654	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	24876 1379435	59112	151962	301073	604270	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	25134 1114355	49229	120679	252245	494975	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	39598 2047637	83781	216862	459229	893811	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	26433 1160589	48663	131655	275868	556663	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	29681 1437611	70153	173195	349172	640910	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	24549 1363698	46085	133888	295687	584812	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	23184 1106626	49495	122665	256132	497361	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	90930 4069318	172146	436056	904090	1842338	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	28597 1465588	58727	155242	335542	664839	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	43560 2187742	93381	231598	510688	988236	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	55634 2704207	116019	290737	610054	1217906	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	58298 2720517	111331	282443	634445	1255659	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	83896 4355225	169377	444084	970628	1935400	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	16010 871846	29057	85252	192236	373975	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	140287 6878374	270769	706550	1518830	3190192	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	26825 1346540	59318	154279	326061	616266	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	32683 1724828	70947	182098	390182	796311	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	9658 438331	21622	51577	102526	190955	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	8759 461758	18376	44276	103430	203292	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	38312 1759837	73772	197109	413614	831548	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	34401 1517919	66480	169424	362635	724775	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	109813 5509072	214316	573406	1254529	2518483	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	34721 1613994	64869	178660	377697	770456	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	91638 4572727	182899	479355	1025751	2192014	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	119321 5863001	224441	615340	1312431	2658718	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	137992 6239831	256513	665778	1425479	2950117	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	70628 3240993	132523	347213	752747	1482974	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	113449 5530398	224447	574692	1252009	2607553	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	73057 3357065	138726	360174	765231	1546175	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 11:29 Calibration End Date: 11/28/2014 13:21 Calibration ID: 25575

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	97801 4539461	186039	490219	1053044	2153689	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	64812 3105080	134371	348251	725307	1449184	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	5114 251225	10518	29138	60471	126762	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	37884 1597470	76413	199698	421317	826018	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	20067 626841	38730	92345	194258	383412	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	77624 3957251	163724	451387	980059	1957132	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	34545 1332593	70767	181962	372817	737749	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	31174 1404060	55194	159303	314223	666053	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	37158 1760385	73237	193529	403930	811560	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	114897 5574097	212896	583920	1190186	2523209	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	43311 1889476	78423	215898	413196	895641	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

Lin1 = Linear 1/conc ISTD

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9937.D  
 Lims ID: STD8260 L6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 28-Nov-2014 11:29:30 ALS Bottle#: 1 Worklist Smp#: 2  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-002  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub29  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:11 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 28-Nov-2014 13:05:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	98	1513026	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	86	1057762	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	95	586658	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	1404060	40.0	42.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	1760385	40.0	42.7	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	94	5574097	40.0	44.9	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	1889476	40.0	42.4	
9 Dichlorodifluoromethane	85	1.615	1.627	-0.012	99	1521650	40.0	36.6	
10 Chloromethane	50	1.769	1.769	0.000	99	1930550	40.0	39.8	
11 Vinyl chloride	62	1.888	1.888	0.000	98	1950490	40.0	38.7	
12 Butadiene	54	1.935	1.935	0.000	0	1936221	40.0	36.3	
13 Bromomethane	94	2.220	2.220	0.000	92	705760	40.0	39.7	
14 Chloroethane	64	2.326	2.327	-0.001	99	994983	40.0	39.5	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	1876174	40.0	40.1	
16 Trichlorofluoromethane	101	2.575	2.576	-0.001	98	1584681	40.0	36.7	
17 Ethyl ether	59	2.836	2.836	0.000	93	1422766	40.0	43.1	
18 Acrolein	56	2.943	2.955	-0.012	98	475791	200.0	211.8	
19 1,1-Dichloroethene	96	3.050	3.062	-0.012	94	1380015	40.0	40.4	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	94	1050248	40.0	36.1	
21 Acetone	43	3.085	3.085	0.000	100	798944	80.0	73.4	
23 Iodomethane	142	3.192	3.192	0.000	98	2148950	40.0	41.6	
24 Carbon disulfide	76	3.263	3.263	0.000	100	4522749	40.0	40.4	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	87	983539	40.0	43.9	
27 Methyl acetate	43	3.394	3.394	0.000	98	5277918	200.0	221.4	
28 Methylene Chloride	84	3.489	3.489	0.000	99	1506868	40.0	40.3	
29 2-Methyl-2-propanol	59	3.583	3.584	-0.001	99	1091823	400.0	454.8	
30 Acrylonitrile	53	3.690	3.690	0.000	99	5478446	400.0	448.7	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	93	1550903	40.0	40.8	
31 Methyl tert-butyl ether	73	3.738	3.750	-0.012	98	4339514	40.0	44.8	
33 Hexane	86	3.987	3.999	-0.012	91	332488	40.0	37.2	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	3224416	40.0	42.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	98	766115	38.4	43.6	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	53	1081380	80.0	78.7	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	86	1702455	40.0	42.3	
41 2,2-Dichloropropane	77	4.603	4.610	-0.007	92	1844945	40.0	39.0	
45 Chlorobromomethane	128	4.805	4.805	0.000	95	772422	40.0	42.4	
46 Tetrahydrofuran	42	4.852	4.852	0.000	89	688225	80.0	78.8	
47 Chloroform	83	4.864	4.864	0.000	96	2627297	40.0	42.3	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	2148432	40.0	40.4	
49 Cyclohexane	56	5.101	5.113	-0.012	93	2850085	40.0	38.7	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	92	1935692	40.0	40.9	
51 Carbon tetrachloride	117	5.196	5.196	0.000	96	1957599	40.0	40.7	
52 Isobutyl alcohol	41	5.232	5.244	-0.012	96	845246	1000.0	1188.9	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	59	2340398	40.0	43.7	
54 Benzene	78	5.362	5.362	0.000	97	6517923	40.0	43.3	
56 n-Heptane	57	5.576	5.588	-0.012	90	876595	40.0	33.5	
58 Trichloroethene	130	5.908	5.908	0.000	94	1569156	40.0	41.1	
60 Methylcyclohexane	83	6.086	6.098	-0.012	93	2046104	40.0	37.7	
61 1,2-Dichloropropane	63	6.086	6.098	-0.012	92	1712349	40.0	44.0	
63 Dibromomethane	93	6.192	6.192	0.000	93	817210	40.0	43.2	
64 1,4-Dioxane	88	6.192	6.204	-0.012	94	186126	800.0	814.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	98	1964658	40.0	43.6	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	1693568	80.0	91.0	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	91	2314457	40.0	46.2	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	97	2303544	80.0	85.3	
70 Toluene	91	7.022	7.023	0.000	97	6717580	40.0	44.8	
71 trans-1,3-Dichloropropene	75	7.188	7.200	-0.012	98	1868432	40.0	46.3	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	90	1379435	40.0	44.7	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	93	1114355	40.0	42.7	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	93	2047637	40.0	44.7	
75 Tetrachloroethene	164	7.520	7.532	-0.012	78	1160589	40.0	41.8	
76 2-Hexanone	43	7.580	7.580	0.000	95	1437611	80.0	82.8	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	1363698	40.0	47.5	
80 Ethylene Dibromide	107	7.841	7.853	-0.012	99	1106626	40.0	42.8	
82 Chlorobenzene	112	8.303	8.303	0.000	94	4069318	40.0	43.2	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	95	1465588	40.0	44.4	
84 Ethylbenzene	106	8.398	8.398	0.000	99	2187742	40.0	43.7	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	2704207	40.0	43.6	
86 o-Xylene	106	8.884	8.884	0.000	99	2720517	40.0	43.4	
87 Styrene	104	8.896	8.896	0.000	94	4355225	40.0	45.3	
88 Bromoform	173	9.074	9.074	0.000	97	871846	40.0	47.4	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	6878374	40.0	44.5	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	1346540	40.0	42.3	
93 Bromobenzene	156	9.536	9.537	0.000	96	1724828	40.0	44.2	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	87	438331	40.0	41.2	
94 trans-1,4-Dichloro-2-buten	53	9.548	9.560	-0.012	78	461758	40.0	45.5	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	1759837	40.0	42.2	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	1517919	40.0	41.5	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	5509072	40.0	44.3	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	1613994	40.0	42.6	
102 tert-Butylbenzene	119	10.117	10.129	-0.012	93	4572727	40.0	43.8	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	5863001	40.0	44.4	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	6239831	40.0	42.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	99	3240993	40.0	43.0	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	98	5530398	40.0	43.7	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	94	3357065	40.0	43.0	
111 n-Butylbenzene	91	10.876	10.888	-0.012	97	4539461	40.0	42.8	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	97	3105080	40.0	42.4	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	83	251225	40.0	41.8	
115 1,2,4-Trichlorobenzene	180	12.501	12.501	0.000	94	1597470	40.0	38.6	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	626841	40.0	32.3	
117 Naphthalene	128	12.750	12.750	0.000	97	3957251	40.0	42.2	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	1332593	40.0	36.1	
S 131 1,2-Dichloroethene, Total	96				0		80.0	83.1	
S 132 1,3-Dichloropropene, Total	75				0		80.0	92.4	
S 133 Xylenes, Total	106				0		80.0	87.0	
S 134 Trihalomethanes, Total	1				0		160.0	180.8	

**Reagents:**

VMRPRIMW_00098	Amount Added: 32.00	Units: uL
VMRGAS_00080	Amount Added: 32.00	Units: uL
VMAROLISTDW_00075	Amount Added: 32.00	Units: uL
vm50ss_00179	Amount Added: 32.00	Units: uL
VM50IS_00045	Amount Added: 1.00	Units: uL

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9937.D

Injection Date: 28-Nov-2014 11:29:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STD8260 L6

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

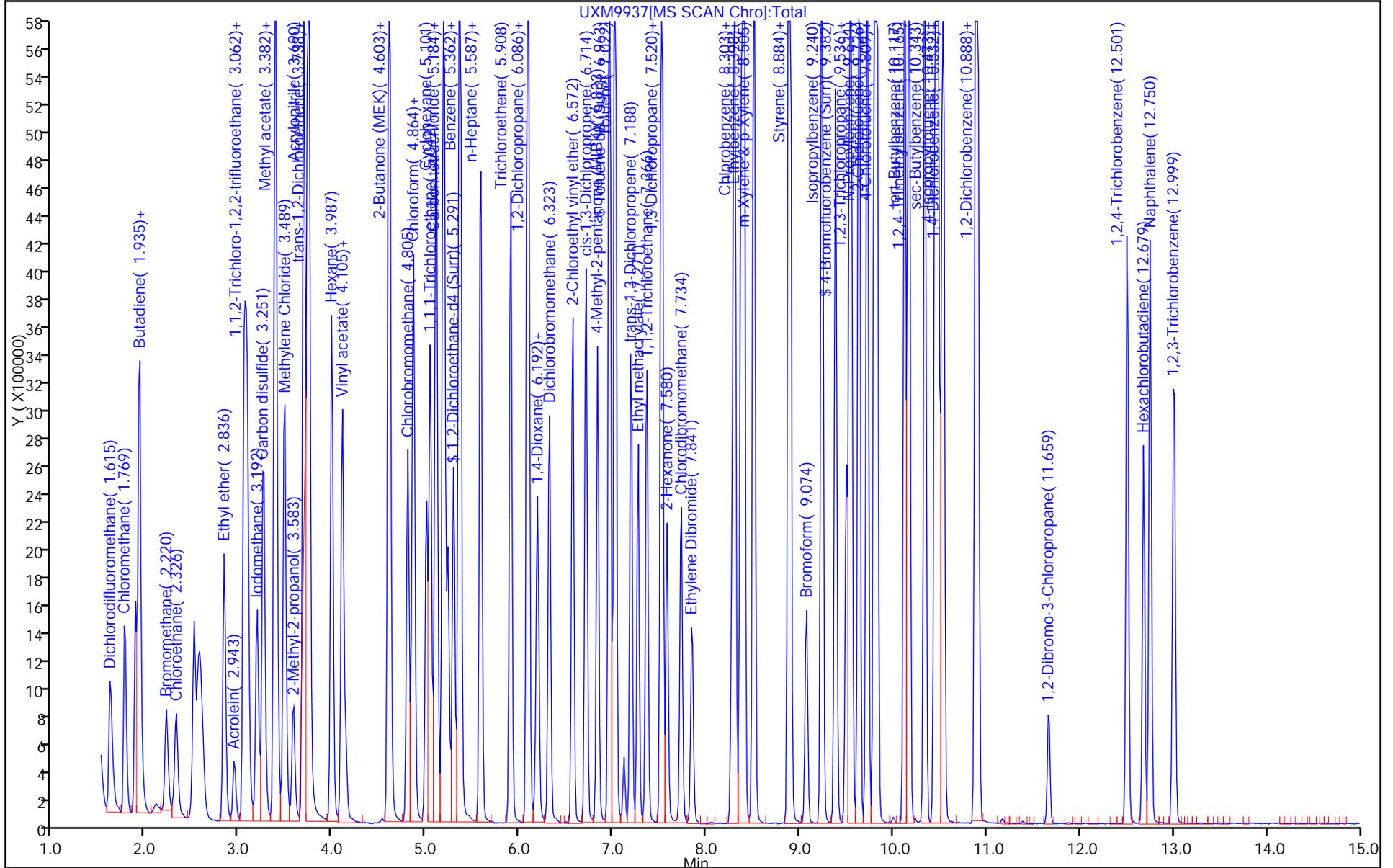
ALS Bottle#: 1

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9938.D

Lims ID: STD8260 L5

Client ID:

Sample Type: IC

Calib Level: 5

Inject. Date: 28-Nov-2014 11:52:30

ALS Bottle#: 2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Sample Info: 240-0037991-003

Operator ID: 1904

Instrument ID: A3UX16

Sublist: chrom-8260\_16\*sub29

Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m

Limit Group: MSV 8260B ICAL

Last Update: 01-Dec-2014 08:04:12

Calib Date: 28-Nov-2014 16:16:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D

Column 1 : DB-624 ( 0.18 mm)

Det: MS SCAN

Process Host: XAWRK051

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1472674	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	86	1019076	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	92	568215	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	93	666053	20.0	20.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	811560	20.0	20.2	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	2523209	20.0	21.1	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	90	895641	20.0	20.9	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	877151	20.0	21.7	
10 Chloromethane	50	1.769	1.769	0.000	98	964262	20.0	20.4	
11 Vinyl chloride	62	1.888	1.888	0.000	98	1010399	20.0	20.6	
12 Butadiene	54	1.923	1.923	0.000	0	1067308	20.0	20.6	
13 Bromomethane	94	2.220	2.220	0.000	90	363767	20.0	21.0	
14 Chloroethane	64	2.327	2.327	0.000	99	506699	20.0	20.7	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	996739	20.0	21.9	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	940593	20.0	22.4	
17 Ethyl ether	59	2.836	2.836	0.000	93	642455	20.0	20.0	
18 Acrolein	56	2.943	2.943	0.000	99	222437	100.0	101.7	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	94	678892	20.0	20.4	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	95	572757	20.0	20.2	
21 Acetone	43	3.085	3.085	0.000	99	372719	40.0	35.2	
23 Iodomethane	142	3.192	3.192	0.000	97	1043149	20.0	20.7	
24 Carbon disulfide	76	3.263	3.263	0.000	100	2274878	20.0	20.9	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	87	450806	20.0	20.7	
27 Methyl acetate	43	3.394	3.394	0.000	98	2333284	100.0	100.5	
28 Methylene Chloride	84	3.489	3.489	0.000	98	721543	20.0	19.8	
29 2-Methyl-2-propanol	59	3.584	3.584	0.000	99	467344	200.0	200.0	
30 Acrylonitrile	53	3.690	3.690	0.000	99	2444912	200.0	205.7	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	72	770046	20.0	20.8	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	98	1933498	20.0	20.5	
33 Hexane	86	3.987	3.987	0.000	90	193495	20.0	22.2	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	1493211	20.0	20.1	
35 Vinyl acetate	43	4.141	4.141	0.000	98	341747	19.2	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.603	4.603	0.000	66	458127	40.0	34.3	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	86	808869	20.0	20.6	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	91	958423	20.0	20.8	
45 Chlorobromomethane	128	4.805	4.805	0.000	95	356762	20.0	20.1	
46 Tetrahydrofuran	42	4.852	4.852	0.000	89	305806	40.0	36.0	
47 Chloroform	83	4.864	4.864	0.000	96	1224553	20.0	20.3	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	1081924	20.0	20.9	
49 Cyclohexane	56	5.101	5.101	0.000	93	1544135	20.0	21.5	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	91	977312	20.0	21.2	
51 Carbon tetrachloride	117	5.196	5.196	0.000	96	988122	20.0	21.1	
52 Isobutyl alcohol	41	5.232	5.232	0.000	92	358975	500.0	518.7	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	59	1057693	20.0	20.3	
54 Benzene	78	5.362	5.362	0.000	98	2970638	20.0	20.3	
56 n-Heptane	57	5.588	5.588	0.000	89	550784	20.0	20.7	
58 Trichloroethene	130	5.908	5.908	0.000	95	767533	20.0	20.7	
60 Methylcyclohexane	83	6.086	6.086	0.000	87	1151291	20.0	21.8	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	75	777542	20.0	20.5	
63 Dibromomethane	93	6.192	6.192	0.000	94	368585	20.0	20.0	
64 1,4-Dioxane	88	6.192	6.192	0.000	97	85998	400.0	386.4	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	888393	20.0	20.2	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	710833	40.0	39.2	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	91	1007486	20.0	20.6	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	96	992630	40.0	37.7	
70 Toluene	91	7.022	7.022	0.000	97	3026130	20.0	20.9	
71 trans-1,3-Dichloropropene	75	7.188	7.188	0.000	98	807654	20.0	20.8	
72 Ethyl methacrylate	69	7.272	7.272	0.000	89	604270	20.0	20.3	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	92	494975	20.0	19.7	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	96	893811	20.0	20.3	
75 Tetrachloroethene	164	7.521	7.521	0.000	96	556663	20.0	20.8	
76 2-Hexanone	43	7.580	7.580	0.000	96	640910	40.0	38.3	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	584812	20.0	21.2	
80 Ethylene Dibromide	107	7.853	7.853	0.000	99	497361	20.0	20.0	
82 Chlorobenzene	112	8.303	8.303	0.000	94	1842338	20.0	20.3	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	94	664839	20.0	20.9	
84 Ethylbenzene	106	8.398	8.398	0.000	99	988236	20.0	20.5	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	1217906	20.0	20.4	
86 o-Xylene	106	8.884	8.884	0.000	97	1255659	20.0	20.8	
87 Styrene	104	8.896	8.896	0.000	94	1935400	20.0	20.9	
88 Bromoform	173	9.074	9.074	0.000	97	373975	20.0	21.1	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	3190192	20.0	21.4	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	616266	20.0	20.0	
93 Bromobenzene	156	9.536	9.536	0.000	95	796311	20.0	21.0	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	89	190955	20.0	18.5	
94 trans-1,4-Dichloro-2-buten	53	9.548	9.548	0.000	71	203292	20.0	20.7	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	831548	20.0	20.6	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	724775	20.0	20.5	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	2518483	20.0	20.9	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	770456	20.0	21.0	
102 tert-Butylbenzene	119	10.129	10.129	0.000	91	2192014	20.0	21.7	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	97	2658718	20.0	20.8	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	2950117	20.0	20.9	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	98	1482974	20.0	20.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.473	10.473	0.000	98	2607553	20.0	21.3	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	94	1546175	20.0	20.5	
111 n-Butylbenzene	91	10.876	10.876	0.000	98	2153689	20.0	20.9	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	98	1449184	20.0	20.4	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	81	126762	20.0	21.8	
115 1,2,4-Trichlorobenzene	180	12.501	12.501	0.000	95	826018	20.0	20.6	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	97	383412	20.0	20.4	
117 Naphthalene	128	12.750	12.750	0.000	97	1957132	20.0	21.5	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	737749	20.0	20.6	
S 131 1,2-Dichloroethene, Total	96				0		40.0	41.5	
S 132 1,3-Dichloropropene, Total	75				0		40.0	41.4	
S 133 Xylenes, Total	106				0		40.0	41.2	
S 134 Trihalomethanes, Total	1				0		80.0	82.8	

**Reagents:**

VMRPRIMW_00098	Amount Added: 16.00	Units: uL
VMRGAS_00080	Amount Added: 16.00	Units: uL
VMAROLISTDW_00075	Amount Added: 16.00	Units: uL
vm50ss_00179	Amount Added: 16.00	Units: uL
VM50IS_00045	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9938.D

Injection Date: 28-Nov-2014 11:52:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STD8260 L5

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

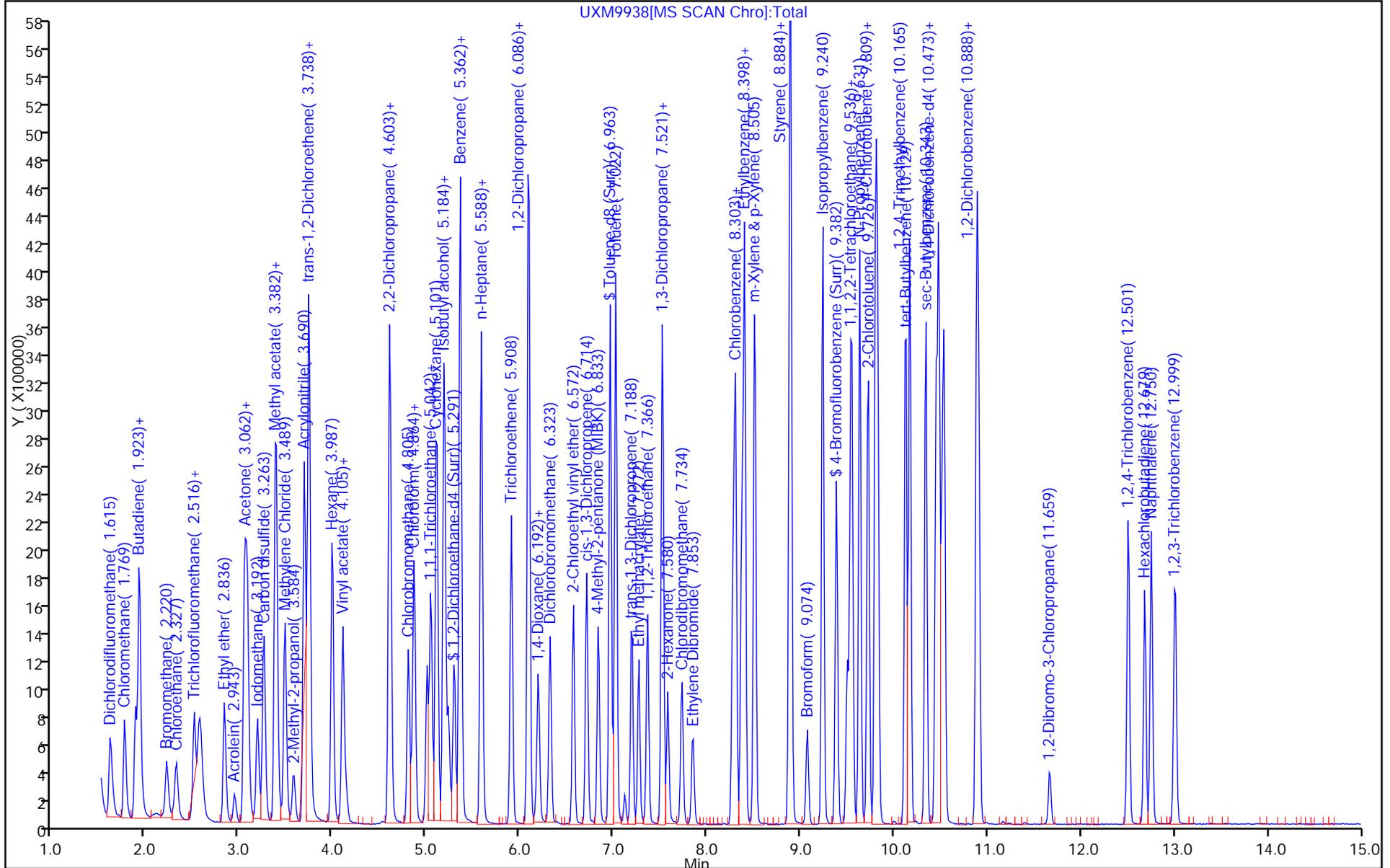
ALS Bottle#: 2

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9939.D  
 Lims ID: STD8260 L4  
 Client ID:  
 Sample Type: ICIS Calib Level: 4  
 Inject. Date: 28-Nov-2014 12:14:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-004  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub29  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:14 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 28-Nov-2014 13:06:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1517068	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	87	1053909	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	581948	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	92	314223	10.0	9.48	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	403930	10.0	9.78	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	94	1190186	10.0	9.63	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	413196	10.0	9.32	
9 Dichlorodifluoromethane	85	1.627	1.627	0.000	98	413480	10.0	9.91	
10 Chloromethane	50	1.769	1.769	0.000	99	464404	10.0	9.54	
11 Vinyl chloride	62	1.888	1.888	0.000	98	480060	10.0	9.50	
12 Butadiene	54	1.935	1.935	0.000	0	513430	10.0	9.60	
13 Bromomethane	94	2.220	2.220	0.000	90	188554	10.0	10.6	
14 Chloroethane	64	2.327	2.327	0.000	99	248705	10.0	9.85	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	99	478058	10.0	10.2	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	441103	10.0	10.2	
17 Ethyl ether	59	2.836	2.836	0.000	91	324944	10.0	9.82	
18 Acrolein	56	2.955	2.955	0.000	99	109746	50.0	48.7	
19 1,1-Dichloroethene	96	3.062	3.062	0.000	94	335523	10.0	9.79	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	92	283284	10.0	9.70	
21 Acetone	43	3.085	3.085	0.000	100	195679	20.0	17.9	
23 Iodomethane	142	3.192	3.192	0.000	99	519881	10.0	10.0	
24 Carbon disulfide	76	3.263	3.263	0.000	100	1123136	10.0	10.0	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	87	224402	10.0	10.0	
27 Methyl acetate	43	3.394	3.394	0.000	98	1166537	50.0	48.8	
28 Methylene Chloride	84	3.489	3.489	0.000	98	361596	10.0	9.65	
29 2-Methyl-2-propanol	59	3.584	3.584	0.000	99	239665	100.0	99.6	
30 Acrylonitrile	53	3.690	3.690	0.000	100	1232009	100.0	100.6	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	94	374249	10.0	9.83	
31 Methyl tert-butyl ether	73	3.750	3.750	0.000	98	966239	10.0	9.94	
33 Hexane	86	3.999	3.999	0.000	90	86697	10.0	9.67	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	765285	10.0	9.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	98	168816	9.60	9.57	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	49	250132	20.0	18.2	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	86	401483	10.0	9.94	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	90	465438	10.0	9.82	
45 Chlorobromomethane	128	4.805	4.805	0.000	95	185017	10.0	10.1	
46 Tetrahydrofuran	42	4.852	4.852	0.000	90	162887	20.0	18.6	
47 Chloroform	83	4.864	4.864	0.000	96	618786	10.0	9.94	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	532735	10.0	10.0	
49 Cyclohexane	56	5.113	5.113	0.000	94	750300	10.0	10.2	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	94	481081	10.0	10.1	
51 Carbon tetrachloride	117	5.196	5.196	0.000	98	481385	10.0	10.0	
52 Isobutyl alcohol	41	5.244	5.244	0.000	91	175443	250.0	246.1	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	61	538087	10.0	10.0	
54 Benzene	78	5.362	5.362	0.000	97	1458971	10.0	9.67	
56 n-Heptane	57	5.588	5.588	0.000	89	297159	10.0	9.56	
58 Trichloroethene	130	5.908	5.908	0.000	95	372989	10.0	9.75	
60 Methylcyclohexane	83	6.098	6.098	0.000	85	535670	10.0	9.85	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	76	380850	10.0	9.76	
63 Dibromomethane	93	6.192	6.192	0.000	93	187929	10.0	9.90	
64 1,4-Dioxane	88	6.204	6.204	0.000	41	45545	200.0	198.7	
65 Dichlorobromomethane	83	6.323	6.323	0.000	98	451130	10.0	9.98	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	368944	20.0	19.8	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	92	504654	10.0	10.0	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	96	516702	20.0	19.1	
70 Toluene	91	7.023	7.023	0.000	97	1468666	10.0	9.83	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	99	402120	10.0	10.0	
72 Ethyl methacrylate	69	7.272	7.272	0.000	90	301073	10.0	9.80	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	94	252245	10.0	9.71	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	94	459229	10.0	10.1	
75 Tetrachloroethene	164	7.532	7.532	0.000	96	275868	10.0	9.98	
76 2-Hexanone	43	7.580	7.580	0.000	95	349172	20.0	20.2	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	295687	10.0	10.3	
80 Ethylene Dibromide	107	7.853	7.853	0.000	98	256132	10.0	9.94	
82 Chlorobenzene	112	8.303	8.303	0.000	93	904090	10.0	9.63	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	94	335542	10.0	10.2	
84 Ethylbenzene	106	8.398	8.398	0.000	98	510688	10.0	10.2	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	610054	10.0	9.87	
86 o-Xylene	106	8.884	8.884	0.000	97	634445	10.0	10.2	
87 Styrene	104	8.896	8.896	0.000	93	970628	10.0	10.1	
88 Bromoform	173	9.074	9.074	0.000	97	192236	10.0	10.5	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	1518830	10.0	9.86	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	326061	10.0	10.3	
93 Bromobenzene	156	9.537	9.537	0.000	96	390182	10.0	10.1	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	89	102526	10.0	9.72	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	74	103430	10.0	10.3	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	413614	10.0	10.0	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	362635	10.0	10.0	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	1254529	10.0	10.2	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	377697	10.0	10.1	
102 tert-Butylbenzene	119	10.129	10.129	0.000	92	1025751	10.0	9.90	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	97	1312431	10.0	10.0	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	1425479	10.0	9.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	98	752747	10.0	10.1	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	98	1252009	10.0	9.96	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	93	765231	10.0	9.89	
111 n-Butylbenzene	91	10.888	10.888	0.000	98	1053044	10.0	10.0	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	97	725307	10.0	9.99	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	81	60471	10.0	10.1	
115 1,2,4-Trichlorobenzene	180	12.501	12.501	0.000	94	421317	10.0	10.3	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	96	194258	10.0	10.1	
117 Naphthalene	128	12.750	12.750	0.000	97	980059	10.0	10.5	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	372817	10.0	10.2	
S 131 1,2-Dichloroethene, Total	96				0		20.0	19.8	
S 132 1,3-Dichloropropene, Total	75				0		20.0	20.0	
S 133 Xylenes, Total	106				0		20.0	20.0	
S 134 Trihalomethanes, Total	1				0		40.0	40.7	

**Reagents:**

VMRPRIMW_00098	Amount Added: 8.00	Units: uL
VMRGAS_00080	Amount Added: 8.00	Units: uL
VMAROLISTDW_00075	Amount Added: 8.00	Units: uL
vm50ss_00179	Amount Added: 8.00	Units: uL
VM50IS_00045	Amount Added: 1.00	Units: uL

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9939.D

Injection Date: 28-Nov-2014 12:14:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STD8260 L4

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

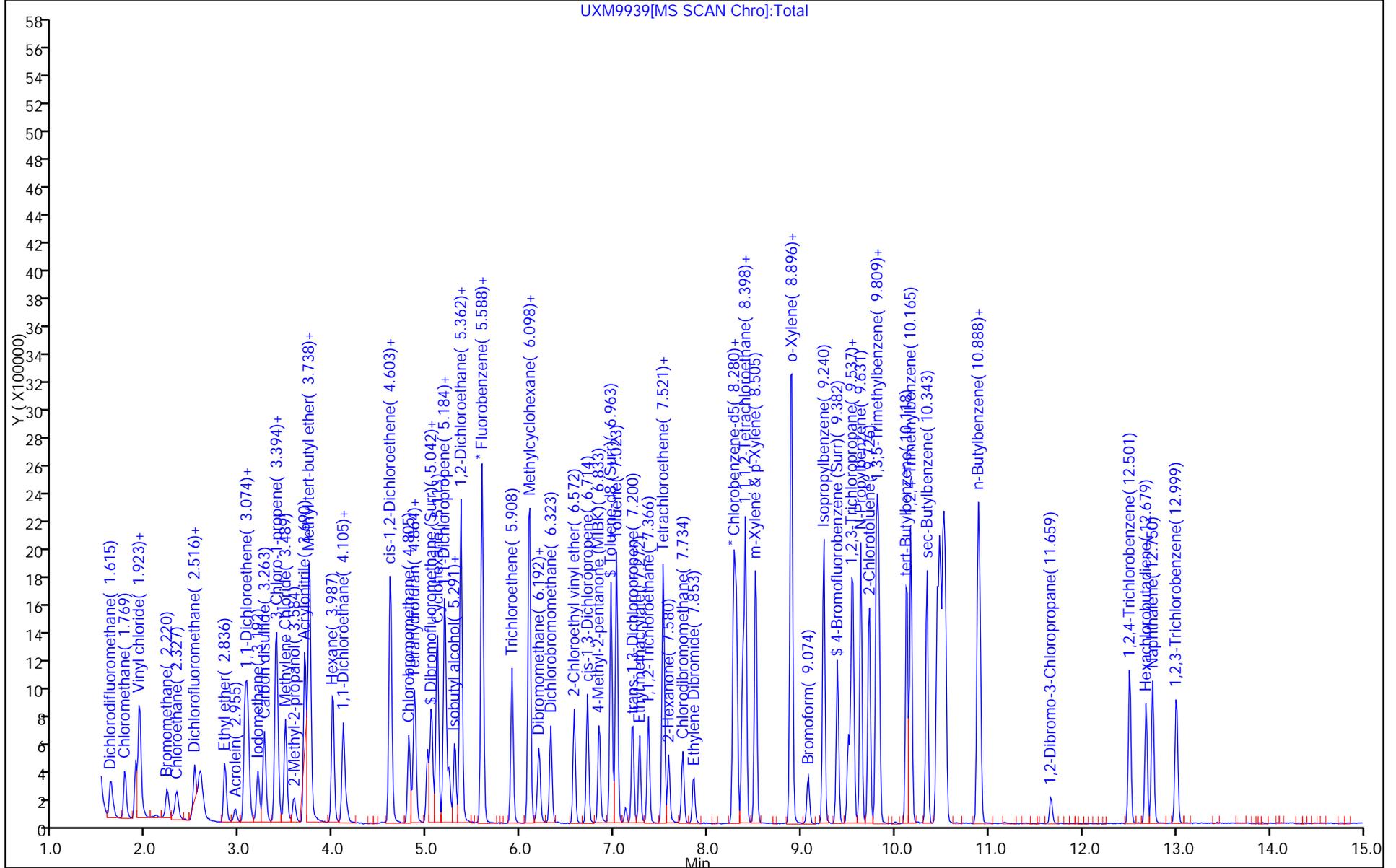
ALS Bottle#: 3

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



UXM9939[MS SCAN Chro]:Total

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9940.D  
 Lims ID: STD8260 L3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 28-Nov-2014 12:36:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-005  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub29  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:15 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1430086	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	87	1023231	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	565665	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	93	159303	5.00	5.10	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.303	5.291	0.012	0	193529	5.00	4.97	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	94	583920	5.00	4.86	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	89	215898	5.00	5.01	
9 Dichlorodifluoromethane	85	1.627	1.627	0.000	98	203976	5.00	5.19	
10 Chloromethane	50	1.781	1.769	0.012	99	232483	5.00	5.07	
11 Vinyl chloride	62	1.899	1.888	0.011	99	236862	5.00	4.97	
12 Butadiene	54	1.935	1.935	0.000	0	255882	5.00	5.08	
13 Bromomethane	94	2.232	2.220	0.012	92	77908	5.00	4.64	
14 Chloroethane	64	2.338	2.327	0.011	99	114605	5.00	4.81	
15 Dichlorofluoromethane	67	2.528	2.516	0.012	97	196383	5.00	4.44	
16 Trichlorofluoromethane	101	2.575	2.576	-0.001	98	208953	5.00	5.12	
17 Ethyl ether	59	2.848	2.836	0.012	92	156483	5.00	5.02	
18 Acrolein	56	2.955	2.955	0.000	97	49782	25.0	23.4	
19 1,1-Dichloroethene	96	3.062	3.062	0.000	94	162043	5.00	5.02	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	92	141867	5.00	5.15	
21 Acetone	43	3.097	3.085	0.012	65	108895	10.0	10.6	
23 Iodomethane	142	3.204	3.192	0.012	96	241125	5.00	4.94	
24 Carbon disulfide	76	3.263	3.263	0.000	99	512163	5.00	4.84	
26 3-Chloro-1-propene	76	3.394	3.382	0.012	87	101918	5.00	4.81	
27 Methyl acetate	43	3.406	3.394	0.012	98	549680	25.0	24.4	
28 Methylene Chloride	84	3.489	3.489	-0.001	98	172376	5.00	4.88	
29 2-Methyl-2-propanol	59	3.583	3.584	-0.001	99	115156	50.0	50.8	
30 Acrylonitrile	53	3.702	3.690	0.012	100	572283	50.0	49.6	
32 trans-1,2-Dichloroethene	96	3.749	3.738	0.011	71	173616	5.00	4.84	
31 Methyl tert-butyl ether	73	3.749	3.750	-0.001	98	468950	5.00	5.12	
33 Hexane	86	3.998	3.999	-0.001	92	42136	5.00	4.99	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	350617	5.00	4.85	
35 Vinyl acetate	43	4.141	4.141	0.000	98	78942	4.80	4.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.603	4.603	0.000	50	127767	10.0	9.84	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	86	190180	5.00	5.00	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	90	215097	5.00	4.81	
45 Chlorobromomethane	128	4.817	4.805	0.012	97	83493	5.00	4.84	
46 Tetrahydrofuran	42	4.864	4.852	0.012	89	75388	10.0	9.14	
47 Chloroform	83	4.876	4.864	0.012	96	287589	5.00	4.90	
48 1,1,1-Trichloroethane	97	5.054	5.042	0.012	97	248838	5.00	4.95	
49 Cyclohexane	56	5.113	5.113	0.000	92	347629	5.00	4.99	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	91	219097	5.00	4.90	
51 Carbon tetrachloride	117	5.196	5.196	0.000	96	230549	5.00	5.08	
52 Isobutyl alcohol	41	5.244	5.244	0.000	94	86559	125.0	128.8	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	59	252242	5.00	4.98	
54 Benzene	78	5.362	5.362	0.000	97	697370	5.00	4.90	
56 n-Heptane	57	5.587	5.588	-0.001	84	167702	5.00	4.66	
58 Trichloroethene	130	5.908	5.908	0.000	96	178539	5.00	4.95	
60 Methylcyclohexane	83	6.097	6.098	-0.001	86	250980	5.00	4.90	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	75	181052	5.00	4.92	
63 Dibromomethane	93	6.192	6.192	0.000	95	89719	5.00	5.01	
64 1,4-Dioxane	88	6.204	6.204	0.000	39	20939	100.0	96.9	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	209125	5.00	4.91	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	93	174793	10.0	9.93	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	90	229219	5.00	4.84	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	97	261615	10.0	10.2	
70 Toluene	91	7.022	7.023	0.000	97	696425	5.00	4.80	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	98	179956	5.00	4.61	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	89	151962	5.00	5.10	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	92	120679	5.00	4.79	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	94	216862	5.00	4.90	
75 Tetrachloroethene	164	7.532	7.532	0.000	95	131655	5.00	4.90	
76 2-Hexanone	43	7.580	7.580	0.000	97	173195	10.0	10.3	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	133888	5.00	4.82	
80 Ethylene Dibromide	107	7.852	7.853	-0.001	98	122665	5.00	4.90	
82 Chlorobenzene	112	8.303	8.303	0.000	93	436056	5.00	4.78	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	93	155242	5.00	4.86	
84 Ethylbenzene	106	8.398	8.398	0.000	99	231598	5.00	4.78	
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	98	290737	5.00	4.84	
86 o-Xylene	106	8.884	8.884	0.000	97	282443	5.00	4.66	
87 Styrene	104	8.896	8.896	0.000	92	444084	5.00	4.78	
88 Bromoform	173	9.074	9.074	0.000	97	85252	5.00	4.79	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	706550	5.00	4.73	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	154279	5.00	5.03	
93 Bromobenzene	156	9.536	9.537	0.000	96	182098	5.00	4.83	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	86	51577	5.00	5.03	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	80	44276	5.00	4.53	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	197109	5.00	4.90	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	169424	5.00	4.80	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	96	573406	5.00	4.79	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	178660	5.00	4.89	
102 tert-Butylbenzene	119	10.129	10.129	0.000	92	479355	5.00	4.76	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	97	615340	5.00	4.84	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	665778	5.00	4.73	
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	98	347213	5.00	4.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	574692	5.00	4.70	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	95	360174	5.00	4.79	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	490219	5.00	4.79	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	98	348251	5.00	4.93	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	78	29138	5.00	5.03	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	93	199698	5.00	5.01	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	92345	5.00	4.93	
117 Naphthalene	128	12.750	12.750	0.000	97	451387	5.00	4.99	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	181962	5.00	5.11	
S 131 1,2-Dichloroethene, Total	96				0		10.0	9.83	
S 132 1,3-Dichloropropene, Total	75				0		10.0	9.44	
S 133 Xylenes, Total	106				0		10.0	9.51	
S 134 Trihalomethanes, Total	1				0		20.0	19.4	

**Reagents:**

VMRPRIMW_00098	Amount Added: 4.00	Units: uL
VMRGAS_00080	Amount Added: 4.00	Units: uL
VMAROLISTDW_00075	Amount Added: 4.00	Units: uL
vm50ss_00179	Amount Added: 4.00	Units: uL
VM50IS_00045	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9940.D

Injection Date: 28-Nov-2014 12:36:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STD8260 L3

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

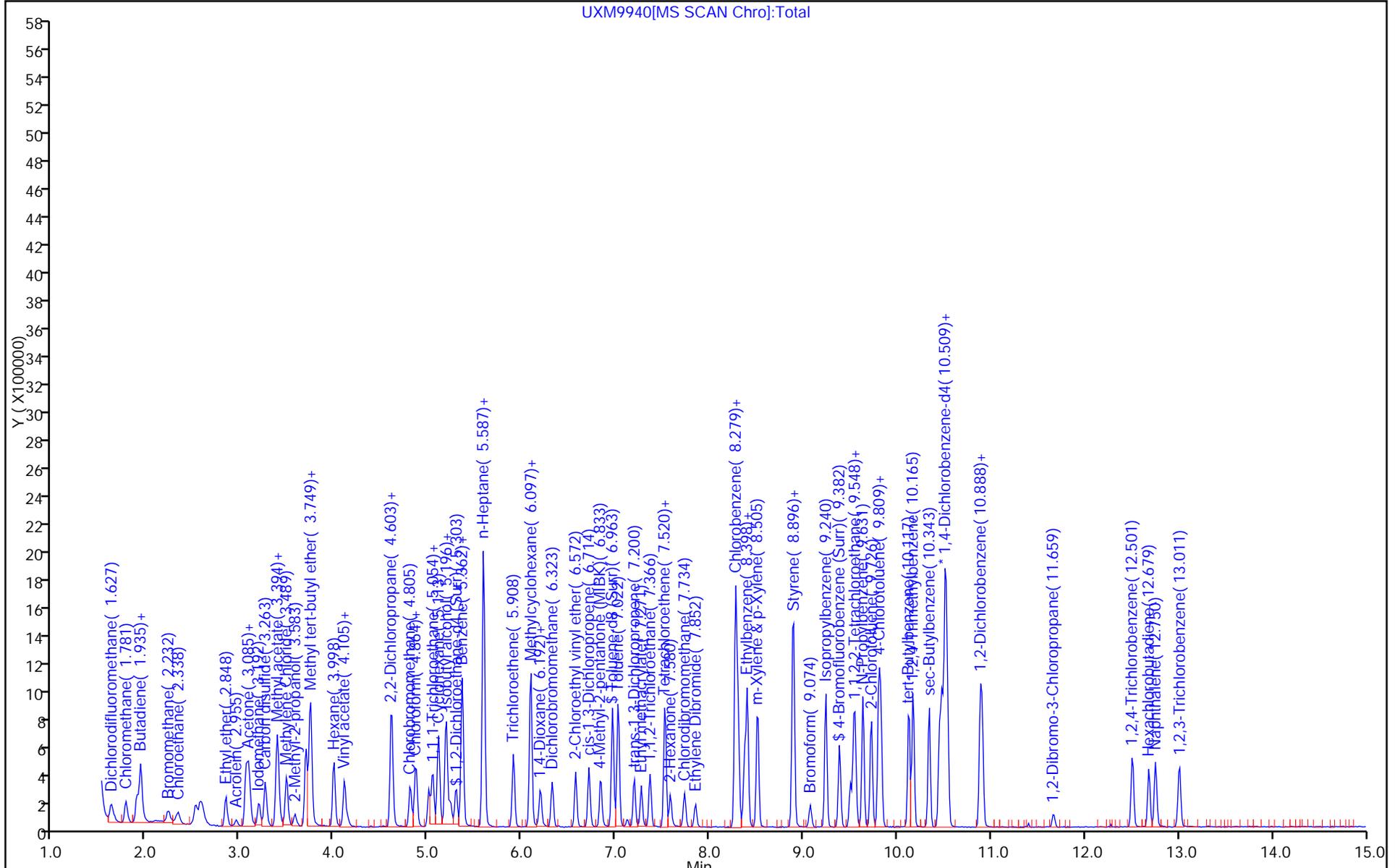
ALS Bottle#: 4

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



UXM9940[MS SCAN Chrom]:Total

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9941.D  
 Lims ID: STD8260 L2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 28-Nov-2014 12:59:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-006  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub29  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:17 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 28-Nov-2014 13:39:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1397368	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	87	1007257	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	95	546915	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	90	55194	2.00	1.81	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.303	5.291	0.012	0	73237	2.00	1.93	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	212896	2.00	1.80	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	90	78423	2.00	1.85	
9 Dichlorodifluoromethane	85	1.627	1.627	0.000	99	75769	2.00	1.97	
10 Chloromethane	50	1.781	1.769	0.012	99	90277	2.00	2.01	
11 Vinyl chloride	62	1.888	1.888	0.000	97	95557	2.00	2.05	
12 Butadiene	54	1.935	1.935	0.000	0	105029	2.00	2.13	
13 Bromomethane	94	2.232	2.220	0.012	85	31976	2.00	1.95	
14 Chloroethane	64	2.338	2.327	0.011	99	49710	2.00	2.14	
15 Dichlorofluoromethane	67	2.528	2.516	0.012	97	83329	2.00	1.93	
16 Trichlorofluoromethane	101	2.575	2.576	-0.001	97	76841	2.00	1.93	
17 Ethyl ether	59	2.836	2.836	0.000	91	60399	2.00	1.98	
18 Acrolein	56	2.955	2.955	0.000	98	20404	10.0	9.83	
19 1,1-Dichloroethene	96	3.062	3.062	0.000	95	59695	2.00	1.89	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	92	49195	2.00	1.83	
21 Acetone	43	3.097	3.085	0.012	84	43358	4.00	4.31	
23 Iodomethane	142	3.192	3.192	0.000	98	94377	2.00	1.98	
24 Carbon disulfide	76	3.263	3.263	0.000	100	200484	2.00	1.94	
26 3-Chloro-1-propene	76	3.394	3.382	0.012	88	41571	2.00	2.01	
27 Methyl acetate	43	3.394	3.394	0.000	98	209724	10.0	9.52	
28 Methylene Chloride	84	3.489	3.489	0.000	95	71147	2.00	2.06	
29 2-Methyl-2-propanol	59	3.583	3.584	-0.001	98	38878	20.0	17.5	
30 Acrylonitrile	53	3.702	3.690	0.012	99	214099	20.0	19.0	
32 trans-1,2-Dichloroethene	96	3.749	3.738	0.011	73	67287	2.00	1.92	
31 Methyl tert-butyl ether	73	3.749	3.750	-0.001	99	168841	2.00	1.89	
33 Hexane	86	3.998	3.999	-0.001	92	15055	2.00	1.82	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	141156	2.00	2.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	24647	1.92	1.52	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	51	54529	4.00	4.30	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	87	72923	2.00	1.96	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	88	86208	2.00	1.97	
45 Chlorobromomethane	128	4.817	4.805	0.012	94	32302	2.00	1.92	
46 Tetrahydrofuran	42	4.864	4.852	0.012	89	33357	4.00	4.14	
47 Chloroform	83	4.876	4.864	0.012	96	111089	2.00	1.94	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	95012	2.00	1.94	
49 Cyclohexane	56	5.113	5.113	0.000	93	125914	2.00	1.85	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	88	78696	2.00	1.80	
51 Carbon tetrachloride	117	5.196	5.196	0.000	96	82163	2.00	1.85	
52 Isobutyl alcohol	41	5.244	5.244	0.000	89	27847	50.0	42.4	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	61	92487	2.00	1.87	
54 Benzene	78	5.362	5.362	0.000	98	260370	2.00	1.87	
56 n-Heptane	57	5.588	5.588	0.000	82	105312	2.00	2.04	
58 Trichloroethene	130	5.908	5.908	0.000	94	66901	2.00	1.90	
60 Methylcyclohexane	83	6.097	6.098	-0.001	87	94876	2.00	1.89	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	75	68981	2.00	1.92	
63 Dibromomethane	93	6.192	6.192	0.000	96	34959	2.00	2.00	
64 1,4-Dioxane	88	6.216	6.204	0.012	27	9407	40.0	44.5	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	82450	2.00	1.98	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	93	65813	4.00	3.83	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	89	89420	2.00	1.93	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	95	97458	4.00	3.91	
70 Toluene	91	7.022	7.023	0.000	98	264684	2.00	1.85	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	98	72730	2.00	1.89	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	88	59112	2.00	2.01	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	90	49229	2.00	1.98	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	94	83781	2.00	1.92	
75 Tetrachloroethene	164	7.520	7.532	-0.012	94	48663	2.00	1.84	
76 2-Hexanone	43	7.580	7.580	0.000	95	70153	4.00	4.24	
78 Chlorodibromomethane	129	7.734	7.734	0.000	89	46085	2.00	1.69	
80 Ethylene Dibromide	107	7.852	7.853	-0.001	95	49495	2.00	2.01	
82 Chlorobenzene	112	8.303	8.303	0.000	94	172146	2.00	1.92	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	93	58727	2.00	1.87	
84 Ethylbenzene	106	8.398	8.398	0.000	99	93381	2.00	1.96	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	116019	2.00	1.96	
86 o-Xylene	106	8.884	8.884	0.000	98	111331	2.00	1.87	
87 Styrene	104	8.896	8.896	0.000	93	169377	2.00	1.85	
88 Bromoform	173	9.074	9.074	0.000	89	29057	2.00	1.66	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	270769	2.00	1.84	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	93	59318	2.00	2.00	
93 Bromobenzene	156	9.536	9.537	0.000	95	70947	2.00	1.95	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	87	21622	2.00	2.18	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	70	18376	2.00	1.94	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	73772	2.00	1.90	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	66480	2.00	1.95	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	214316	2.00	1.85	
100 4-Chlorotoluene	126	9.833	9.821	0.012	98	64869	2.00	1.84	
102 tert-Butylbenzene	119	10.129	10.129	0.000	92	182899	2.00	1.88	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	224441	2.00	1.82	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	256513	2.00	1.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	96	132523	2.00	1.89	
107 4-Isopropyltoluene	119	10.485	10.473	0.012	98	224447	2.00	1.90	
108 1,4-Dichlorobenzene	146	10.533	10.533	-0.001	94	138726	2.00	1.91	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	186039	2.00	1.88	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	97	134371	2.00	1.97	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	81	10518	2.00	1.88	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	94	76413	2.00	1.98	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	96	38730	2.00	2.14	
117 Naphthalene	128	12.750	12.750	0.000	97	163724	2.00	1.87	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	70767	2.00	2.05	
S 131 1,2-Dichloroethene, Total	96				0		4.00	3.88	
S 132 1,3-Dichloropropene, Total	75				0		4.00	3.82	
S 133 Xylenes, Total	106				0		4.00	3.83	
S 134 Trihalomethanes, Total	1				0		8.00	7.26	

**Reagents:**

VMRPRIMW_00098	Amount Added: 1.60	Units: uL
VMRGAS_00080	Amount Added: 1.60	Units: uL
VMAROLISTDW_00075	Amount Added: 1.60	Units: uL
vm50ss_00179	Amount Added: 1.60	Units: uL
VM50IS_00045	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9941.D

Injection Date: 28-Nov-2014 12:59:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STD8260 L2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

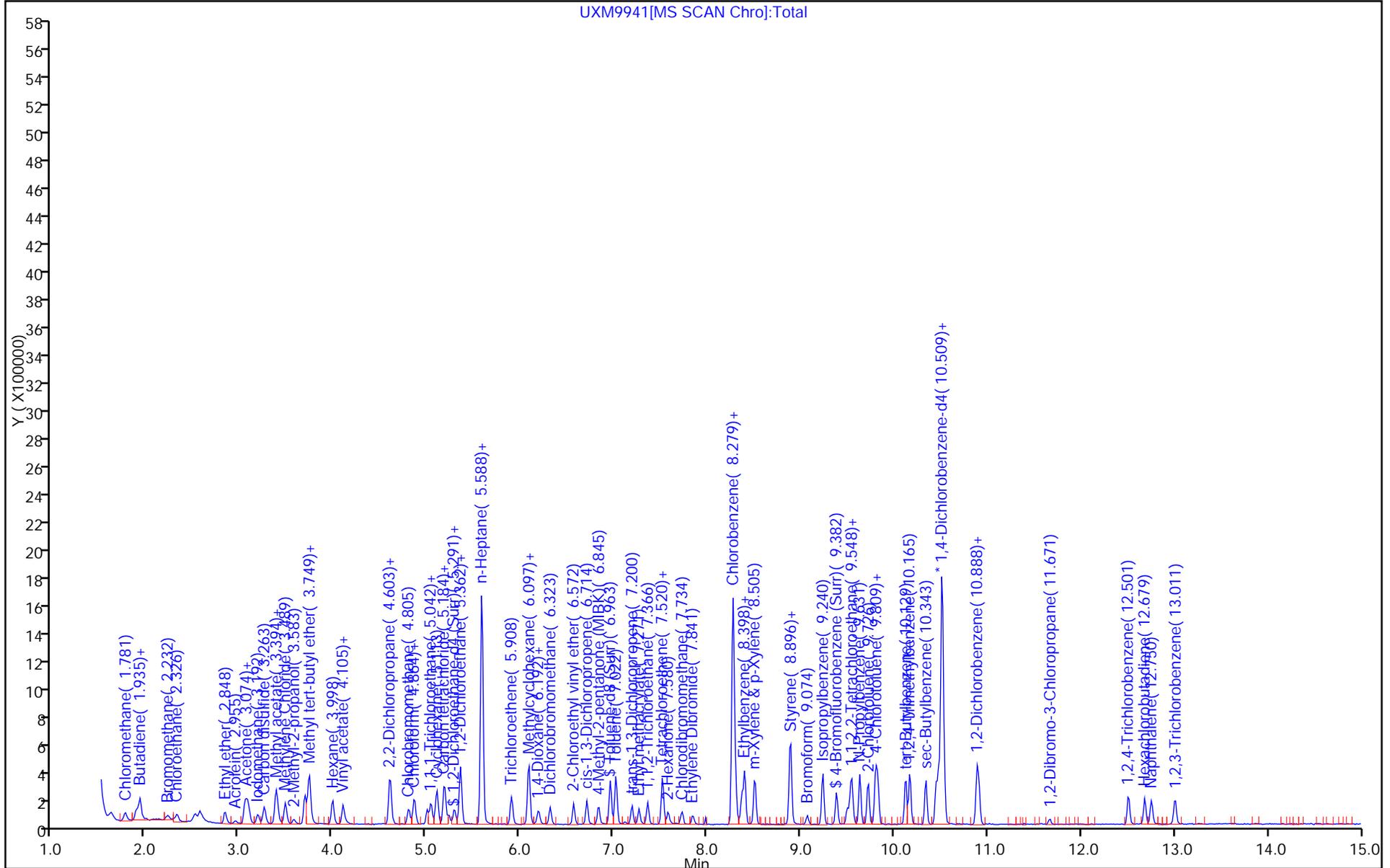
ALS Bottle#: 5

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



UXM9941[MS SCAN Chrom]:Total

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9942.D  
 Lims ID: STD8260 L1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 28-Nov-2014 13:21:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-007  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub29  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:18 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 28-Nov-2014 13:52:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1387017	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	88	994254	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	548015	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	94	31174	1.00	1.03	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	37158	1.00	0.9842	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	94	114897	1.00	0.9851	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	43311	1.00	1.04	
9 Dichlorodifluoromethane	85	1.627	1.627	0.000	97	37666	1.00	0.9877	
10 Chloromethane	50	1.781	1.769	0.012	99	44923	1.00	1.01	
11 Vinyl chloride	62	1.888	1.888	0.000	96	47700	1.00	1.03	
12 Butadiene	54	1.935	1.935	0.000	0	49988	1.00	1.02	
13 Bromomethane	94	2.232	2.220	0.012	88	16263	1.00	1.00	
14 Chloroethane	64	2.338	2.327	0.011	88	22251	1.00	0.9636	
15 Dichlorofluoromethane	67	2.528	2.516	0.012	99	44562	1.00	1.04	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	37710	1.00	0.9534	
17 Ethyl ether	59	2.848	2.836	0.012	94	28531	1.00	0.9435	
18 Acrolein	56	2.955	2.955	0.000	63	10583	5.00	5.14	
19 1,1-Dichloroethene	96	3.062	3.062	0.000	95	32672	1.00	1.04	
20 1,1,2-Trichloro-1,2,2-trif	151	3.086	3.085	0.001	90	31295	1.00	1.17	
21 Acetone	43	3.097	3.085	0.012	80	23388	2.00	2.34	
23 Iodomethane	142	3.192	3.192	0.000	99	44718	1.00	0.9440	
24 Carbon disulfide	76	3.263	3.263	0.000	100	103645	1.00	1.01	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	84	18498	1.00	0.9010	
27 Methyl acetate	43	3.406	3.394	0.012	98	107484	5.00	4.92	
28 Methylene Chloride	84	3.489	3.489	0.000	96	35221	1.00	1.03	
29 2-Methyl-2-propanol	59	3.584	3.584	0.000	97	21457	10.0	9.75	
30 Acrylonitrile	53	3.702	3.690	0.012	100	101027	10.0	9.03	
32 trans-1,2-Dichloroethene	96	3.750	3.738	0.012	73	35849	1.00	1.03	
31 Methyl tert-butyl ether	73	3.750	3.750	0.000	96	79474	1.00	0.8945	
33 Hexane	86	3.999	3.999	0.000	89	8868	1.00	1.08	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	68157	1.00	0.9727	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.153	4.141	0.012	96	16223	0.9600	1.01	
40 2-Butanone (MEK)	43	4.615	4.603	0.012	51	30007	2.00	2.38	
39 cis-1,2-Dichloroethene	96	4.615	4.603	0.012	87	34568	1.00	0.9365	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	72	45559	1.00	1.05	
45 Chlorobromomethane	128	4.805	4.805	0.000	94	16665	1.00	1.00	
46 Tetrahydrofuran	42	4.864	4.852	0.012	51	19772	2.00	2.47	
47 Chloroform	83	4.876	4.864	0.012	96	56115	1.00	0.9860	
48 1,1,1-Trichloroethane	97	5.054	5.042	0.012	98	48088	1.00	0.9867	
49 Cyclohexane	56	5.113	5.113	0.000	89	68661	1.00	1.02	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	91	44511	1.00	1.03	
51 Carbon tetrachloride	117	5.196	5.196	0.000	92	43368	1.00	0.9846	
52 Isobutyl alcohol	41	5.244	5.244	0.000	89	14837	25.0	22.8	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	58	47305	1.00	0.9629	
54 Benzene	78	5.362	5.362	0.000	96	140477	1.00	1.02	
56 n-Heptane	57	5.588	5.588	0.000	80	82631	1.00	1.06	
58 Trichloroethene	130	5.908	5.908	0.000	95	35914	1.00	1.03	
60 Methylcyclohexane	83	6.086	6.098	-0.012	87	52465	1.00	1.06	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	76	33972	1.00	0.9525	
63 Dibromomethane	93	6.192	6.192	0.000	90	16118	1.00	0.9286	
64 1,4-Dioxane	88	6.216	6.204	0.012	33	3943	20.0	18.8	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	38467	1.00	0.9304	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	88	32228	2.00	1.89	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	86	40261	1.00	0.8761	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	95	51314	2.00	2.07	
70 Toluene	91	7.023	7.023	0.001	98	135758	1.00	0.9631	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	98	35640	1.00	0.9389	
72 Ethyl methacrylate	69	7.272	7.272	0.000	86	24876	1.00	0.8584	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	90	25134	1.00	1.03	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	94	39598	1.00	0.9204	
75 Tetrachloroethene	164	7.532	7.532	0.000	92	26433	1.00	1.01	
76 2-Hexanone	43	7.580	7.580	0.000	96	29681	2.00	1.82	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	24549	1.00	0.9104	
80 Ethylene Dibromide	107	7.841	7.853	-0.012	98	23184	1.00	0.9535	
82 Chlorobenzene	112	8.303	8.303	0.000	96	90930	1.00	1.03	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	91	28597	1.00	0.9211	
84 Ethylbenzene	106	8.398	8.398	0.000	99	43560	1.00	0.9253	
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	97	55634	1.00	0.9540	
86 o-Xylene	106	8.884	8.884	0.000	96	58298	1.00	0.99	
87 Styrene	104	8.896	8.896	0.000	94	83896	1.00	0.9285	
88 Bromoform	173	9.074	9.074	0.000	93	16010	1.00	0.9256	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	140287	1.00	0.9655	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	26825	1.00	0.9027	
93 Bromobenzene	156	9.537	9.537	0.001	97	32683	1.00	0.8957	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	85	9658	1.00	0.9725	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	68	8759	1.00	0.9241	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	38312	1.00	0.9840	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	34401	1.00	1.01	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	109813	1.00	0.9459	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	34721	1.00	0.9815	
102 tert-Butylbenzene	119	10.129	10.129	0.000	91	91638	1.00	0.9395	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	119321	1.00	0.9678	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	137992	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	70628	1.00	1.00	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	113449	1.00	0.9587	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	95	73057	1.00	1.00	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	97801	1.00	0.9862	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	97	64812	1.00	0.9478	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	82	5114	1.00	0.9104	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	93	37884	1.00	0.9811	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	20067	1.00	1.11	
117 Naphthalene	128	12.750	12.750	0.000	97	77624	1.00	0.8851	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	93	34545	1.00	1.00	
S 131 1,2-Dichloroethene, Total	96				0		2.00	1.97	
S 132 1,3-Dichloropropene, Total	75				0		2.00	1.82	
S 133 Xylenes, Total	106				0		2.00	1.94	
S 134 Trihalomethanes, Total	1				0		4.00	3.75	

**Reagents:**

VMRPRIMW_00098	Amount Added: 0.80	Units: uL
VMRGAS_00080	Amount Added: 0.80	Units: uL
VMAROLISTDW_00075	Amount Added: 0.80	Units: uL
vm50ss_00179	Amount Added: 0.80	Units: uL
VM50IS_00045	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9942.D

Injection Date: 28-Nov-2014 13:21:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STD8260 L1

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

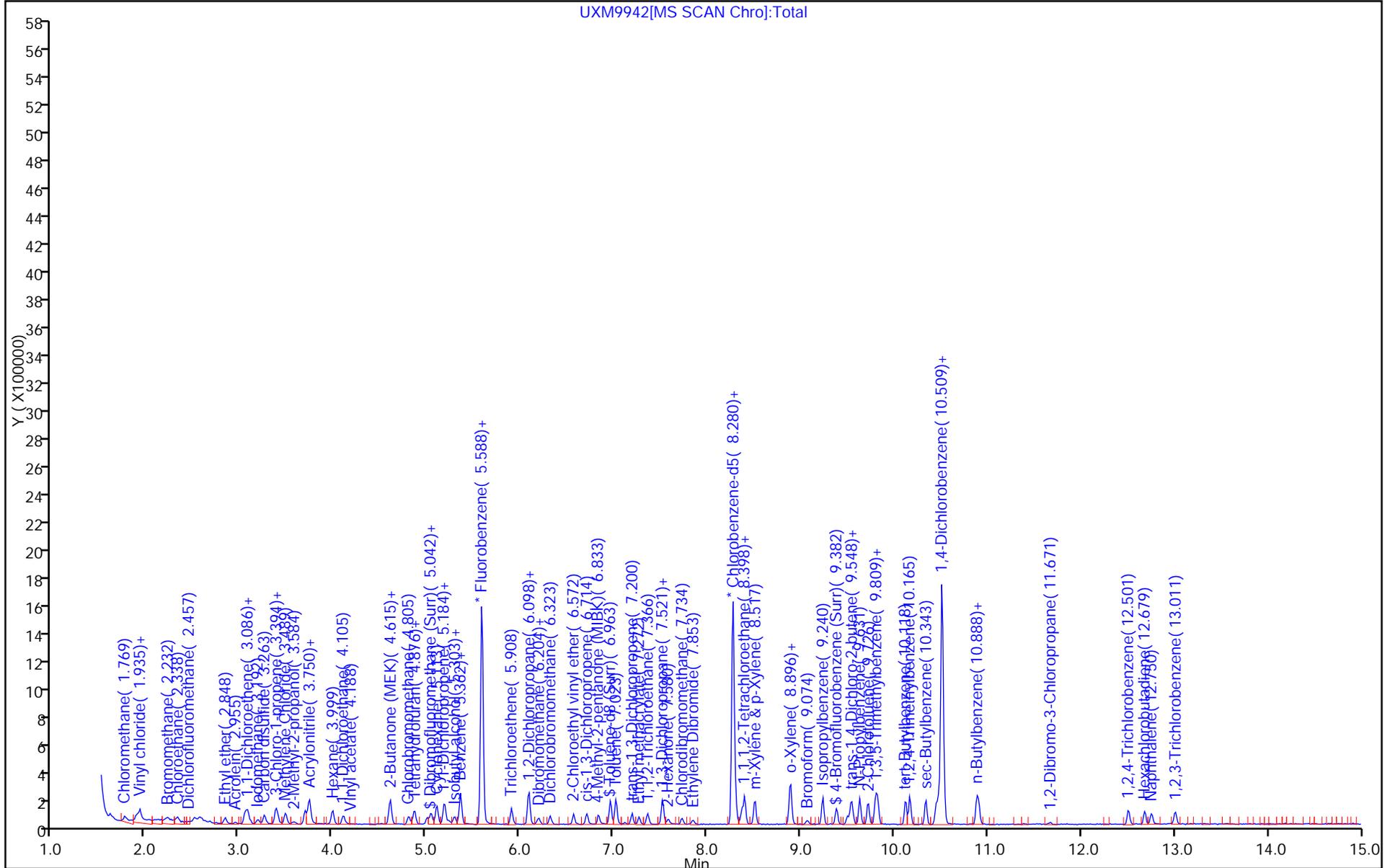
ALS Bottle#: 6

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 14:23 Calibration End Date: 11/28/2014 16:16 Calibration ID: 25578

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-158775/14	UXM9949.D
Level 2	STDA9 240-158775/13	UXM9948.D
Level 3	STDA9 240-158775/12	UXM9947.D
Level 4	STDA9 240-158775/11	UXM9946.D
Level 5	STDA9 240-158775/10	UXM9945.D
Level 6	STDA9 240-158775/9	UXM9944.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0232 0.0229	0.0221	0.0207	0.0209	0.0237	Ave		0.0223			5.5		15.0				
Isopropyl ether	0.2370 0.2235	0.2176	0.2182	0.2225	0.2158	Ave		0.2224			3.5		15.0				
Chloroprene	0.5001 0.5322	0.4679	0.4886	0.5061	0.5170	Ave		0.5020			4.5		15.0				
Tert-butyl ethyl ether	0.8738 0.9073	0.8320	0.8189	0.8666	0.8837	Ave		0.8637			3.8		15.0				
Propionitrile	0.0255 0.0293	0.0261	0.0265	0.0280	0.0301	Ave		0.0276			6.7		15.0				
Ethyl acetate	0.0685 0.0507	0.0611	0.0564	0.0522	0.0524	Ave		0.0569			12.0		15.0				
Methacrylonitrile	0.1191 0.1323	0.1255	0.1212	0.1211	0.1312	Ave		0.1251			4.5		15.0				
Tert-amyl methyl ether	0.6339 0.6832	0.6006	0.6158	0.6311	0.6707	Ave		0.6392			5.0		15.0				
n-Butanol	0.0047 0.0042	0.0038	0.0038	0.0037	0.0045	Ave		0.0041			11.0		15.0				
Ethyl acrylate	0.2525 0.2422	0.2415	0.2434	0.2405	0.2537	Ave		0.2456			2.4		15.0				
Methyl methacrylate	0.1748 0.1718	0.1782	0.1689	0.1717	0.1805	Ave		0.1743			2.5		15.0				
2-Nitropropane	0.0513 0.0560	0.0501	0.0477	0.0533	0.0571	Ave		0.0526			6.8		15.0				
1-Chlorohexane	0.4408 0.4122	0.3829	0.3770	0.3926	0.4014	Ave		0.4011			5.8		15.0				
Cyclohexanone	0.0170 0.0130	0.0152	0.0117	0.0134	0.0143	Ave		0.0141			13.0		15.0				
Pentachloroethane	0.2060 0.2313	0.1851	0.1962	0.2075	0.2143	Ave		0.2067			7.6		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 14:23 Calibration End Date: 11/28/2014 16:16 Calibration ID: 25578

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trimethylbenzene	2.4375 2.5585	2.3648	2.3568	2.3851	2.4316	Ave		2.4224			3.1		15.0				
Benzyl chloride	0.1727 0.2425	0.1684	0.1722	0.1945	0.2270	Lin1	-0.123	0.2345						0.9930			0.9900
1,3,5-Trichlorobenzene	0.8939 0.8484	0.8039	0.8477	0.8414	0.8350	Ave		0.8451			3.4		15.0				
2-Methylnaphthalene	0.6462 0.8185	0.7356	0.7838	0.8115	0.8927	Ave		0.7814			11.0		15.0				
n-Butyl acetate	0.1186 0.1020	0.1113	0.1044	0.1032	0.1050	Ave		0.1074			5.9		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 14:23 Calibration End Date: 11/28/2014 16:16 Calibration ID: 25578

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-158775/14	UXM9949.D
Level 2	STDA9 240-158775/13	UXM9948.D
Level 3	STDA9 240-158775/12	UXM9947.D
Level 4	STDA9 240-158775/11	UXM9946.D
Level 5	STDA9 240-158775/10	UXM9945.D
Level 6	STDA9 240-158775/9	UXM9944.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	30925 1275951	61536	144824	282542	695233	10.0 400	20.0	50.0	100	200
Isopropyl ether	FB	Ave	31573 1247555	60556	152652	300397	632632	1.00 40.0	2.00	5.00	10.0	20.0
Chloroprene	FB	Ave	66623 2970884	130221	341789	683471	1515474	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	116412 5064582	231540	572805	1170277	2590504	1.00 40.0	2.00	5.00	10.0	20.0
Propionitrile	FB	Ave	33935 1637088	72515	185549	377668	881102	10.0 400	20.0	50.0	100	200
Ethyl acetate	FB	Ave	18262 565653	34023	78967	140938	306964	2.00 80.0	4.00	10.0	20.0	40.0
Methacrylonitrile	FB	Ave	158730 7383925	349335	847565	1635398	3845327	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	84450 3813821	167148	430749	852173	1966089	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	FB	Ave	15733 590887	26092	65828	124140	330317	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	33636 1351742	67195	170237	324755	743602	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	46573 1918361	99161	236330	463756	1058295	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	13677 625570	27907	66701	143883	334504	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	42270 1631947	78219	196469	398666	864909	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	9094 282256	15883	31026	71105	160412	10.0 400	20.0	50.0	100	200
Pentachloroethane	CBZ	Ave	39504 1831418	75620	204499	421391	923518	2.00 80.0	4.00	10.0	20.0	40.0
1,2,3-Trimethylbenzene	DCB	Ave	130077 5560259	246306	627546	1269958	2729443	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158775

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 14:23 Calibration End Date: 11/28/2014 16:16 Calibration ID: 25578

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzyl chloride	DCB	Lin1	9215 526988	17535	45861	103538	254860	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	47705 1843858	83736	225703	447988	937312	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCB	Ave	68969 3557554	153240	417386	864199	2004061	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	FB	Ave	15795 569281	30987	73002	139379	307811	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9944.D  
 Lims ID: STDA9 L6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 28-Nov-2014 14:23:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-009  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:20 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 07:56:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1395559	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	87	989882	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	543318	10.0	10.0	
25 Acetonitrile	41	3.335	3.334	0.000	99	1275951	400.0	410.8	
36 Isopropyl ether	87	4.165	4.164	0.001	94	1247555	40.0	40.2	
37 2-Chloro-1,3-butadiene	53	4.188	4.188	0.000	95	2970884	40.0	42.4	
38 Tert-butyl ethyl ether	59	4.485	4.485	0.000	99	5064582	40.0	42.0	
42 Propionitrile	54	4.639	4.651	-0.012	99	1637088	400.0	425.5	
43 Ethyl acetate	43	4.651	4.663	-0.012	99	565653	80.0	71.3	
44 Methacrylonitrile	41	4.781	4.781	0.000	93	7383925	400.0	423.1	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	97	3813821	40.0	42.8	
57 n-Butanol	56	5.789	5.801	-0.012	85	590887	1000.0	1030.3	
59 Ethyl acrylate	55	5.967	5.967	0.000	98	1351742	40.0	39.4	
62 Methyl methacrylate	41	6.169	6.169	0.000	91	1918361	80.0	78.9	
66 2-Nitropropane	41	6.501	6.501	0.000	99	625570	80.0	85.2	
77 n-Butyl acetate	43	7.698	7.698	0.000	96	569281	40.0	38.0	
81 1-Chlorohexane	91	8.268	8.268	0.000	92	1631947	40.0	41.1	
91 Cyclohexanone	55	9.311	9.330	-0.019	94	282256	400.0	368.6	
103 Pentachloroethane	167	10.141	10.141	0.000	0	1831418	80.0	89.5	
109 1,2,3-Trimethylbenzene	105	10.580	10.592	-0.012	99	5560259	40.0	42.2	
110 Benzyl chloride	126	10.663	10.663	0.000	0	526988	40.0	41.9	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	97	1843858	40.0	40.2	
119 2-Methylnaphthalene	142	14.066	14.066	0.000	93	3557554	80.0	83.8	

**Reagents:**

VMRA9W\_00083

Amount Added: 32.00

Units: uL

VM50IS\_00045

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9944.D

Injection Date: 28-Nov-2014 14:23:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STDA9 L6

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

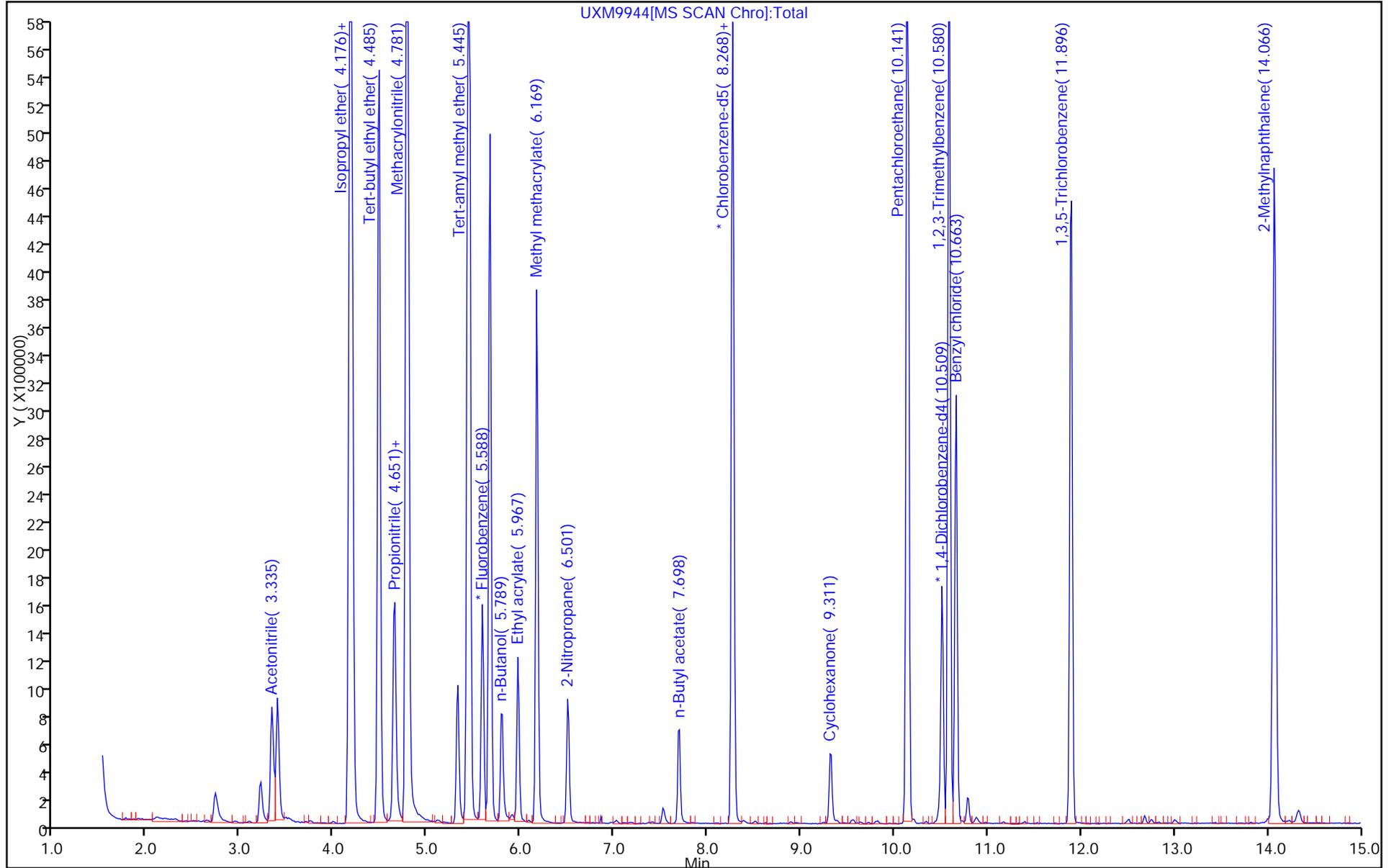
ALS Bottle#: 8

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9945.D  
 Lims ID: STDA9 L5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 28-Nov-2014 14:45:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-010  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:22 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 07:57:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1465743	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	88	1077311	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	95	561254	10.0	10.0	
25 Acetonitrile	41	3.335	3.335	0.000	99	695233	200.0	213.1	
36 Isopropyl ether	87	4.176	4.176	0.000	93	632632	20.0	19.4	
37 2-Chloro-1,3-butadiene	53	4.188	4.188	0.000	95	1515474	20.0	20.6	
38 Tert-butyl ethyl ether	59	4.485	4.485	0.000	99	2590504	20.0	20.5	
42 Propionitrile	54	4.651	4.651	0.000	99	881102	200.0	218.1	
43 Ethyl acetate	43	4.651	4.651	0.000	99	306964	40.0	36.8	
44 Methacrylonitrile	41	4.781	4.781	0.000	92	3845327	200.0	209.8	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	96	1966089	20.0	21.0	
57 n-Butanol	56	5.801	5.801	0.000	85	330317	500.0	548.4	
59 Ethyl acrylate	55	5.967	5.967	0.000	98	743602	20.0	20.7	
62 Methyl methacrylate	41	6.169	6.169	0.000	91	1058295	40.0	41.4	
66 2-Nitropropane	41	6.501	6.501	0.000	98	334504	40.0	43.4	
77 n-Butyl acetate	43	7.698	7.698	0.000	95	307811	20.0	19.6	
81 1-Chlorohexane	91	8.268	8.268	0.000	93	864909	20.0	20.0	
91 Cyclohexanone	55	9.323	9.330	-0.007	92	160412	200.0	202.8	
103 Pentachloroethane	167	10.141	10.141	0.000	0	923518	40.0	41.5	
109 1,2,3-Trimethylbenzene	105	10.592	10.592	0.000	99	2729443	20.0	20.1	
110 Benzyl chloride	126	10.663	10.663	0.000	0	254860	20.0	19.9	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	97	937312	20.0	19.8	
119 2-Methylnaphthalene	142	14.066	14.066	0.000	93	2004061	40.0	45.7	

**Reagents:**

VMRA9W\_00083

Amount Added: 16.00

Units: uL

VM50IS\_00045

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9945.D

Injection Date: 28-Nov-2014 14:45:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STDA9 L5

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

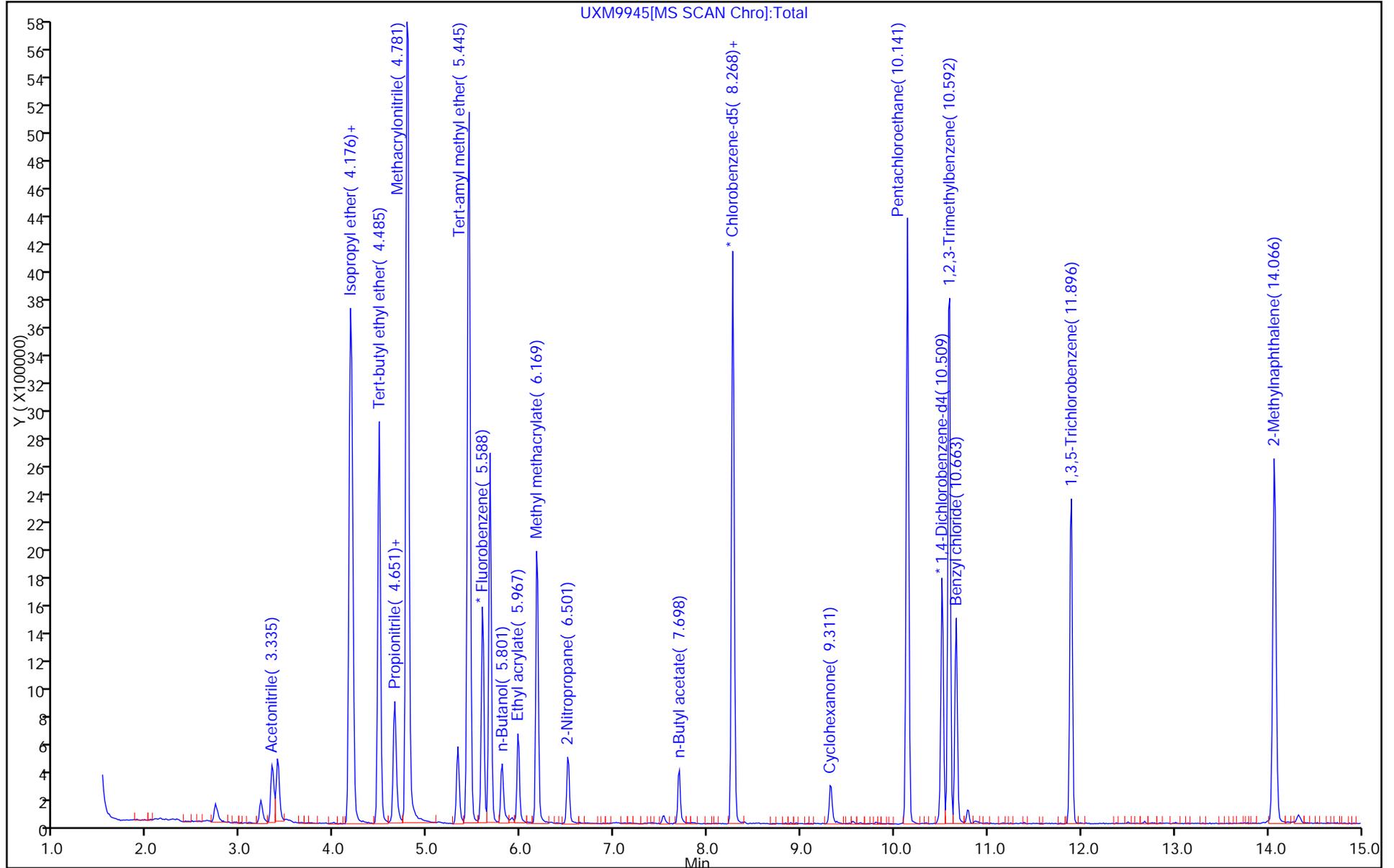
ALS Bottle#: 9

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9946.D  
 Lims ID: STDA9 L4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 28-Nov-2014 15:08:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-011  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:23 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 07:57:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1350386	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	87	1015425	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	532444	10.0	10.0	
25 Acetonitrile	41	3.334	3.334	0.000	100	282542	100.0	94.0	
36 Isopropyl ether	87	4.164	4.164	0.000	93	300397	10.0	10.0	
37 2-Chloro-1,3-butadiene	53	4.188	4.188	0.000	95	683471	10.0	10.1	
38 Tert-butyl ethyl ether	59	4.485	4.485	0.000	99	1170277	10.0	10.0	
42 Propionitrile	54	4.651	4.651	0.000	99	377668	100.0	101.5	
43 Ethyl acetate	43	4.663	4.663	0.000	98	140938	20.0	18.3	
44 Methacrylonitrile	41	4.781	4.781	0.000	92	1635398	100.0	96.8	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	96	852173	10.0	9.87	
57 n-Butanol	56	5.801	5.801	0.000	86	124140	250.0	223.7	
59 Ethyl acrylate	55	5.967	5.967	0.000	98	324755	10.0	9.79	
62 Methyl methacrylate	41	6.169	6.169	0.000	90	463756	20.0	19.7	
66 2-Nitropropane	41	6.501	6.501	0.000	97	143883	20.0	20.3	
77 n-Butyl acetate	43	7.698	7.698	0.000	95	139379	10.0	9.61	
81 1-Chlorohexane	91	8.268	8.268	0.000	89	398666	10.0	9.79	
91 Cyclohexanone	55	9.323	9.330	-0.007	94	71105	100.0	94.7	
103 Pentachloroethane	167	10.141	10.141	0.000	0	421391	20.0	20.1	
109 1,2,3-Trimethylbenzene	105	10.592	10.592	0.000	98	1269958	10.0	9.85	
110 Benzyl chloride	126	10.663	10.663	0.000	0	103538	10.0	8.82	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	97	447988	10.0	9.96	
119 2-Methylnaphthalene	142	14.066	14.066	0.000	92	864199	20.0	20.8	

**Reagents:**

VMRA9W\_00083

Amount Added: 8.00

Units: uL

VM50IS\_00045

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9946.D

Injection Date: 28-Nov-2014 15:08:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STDA9 L4

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

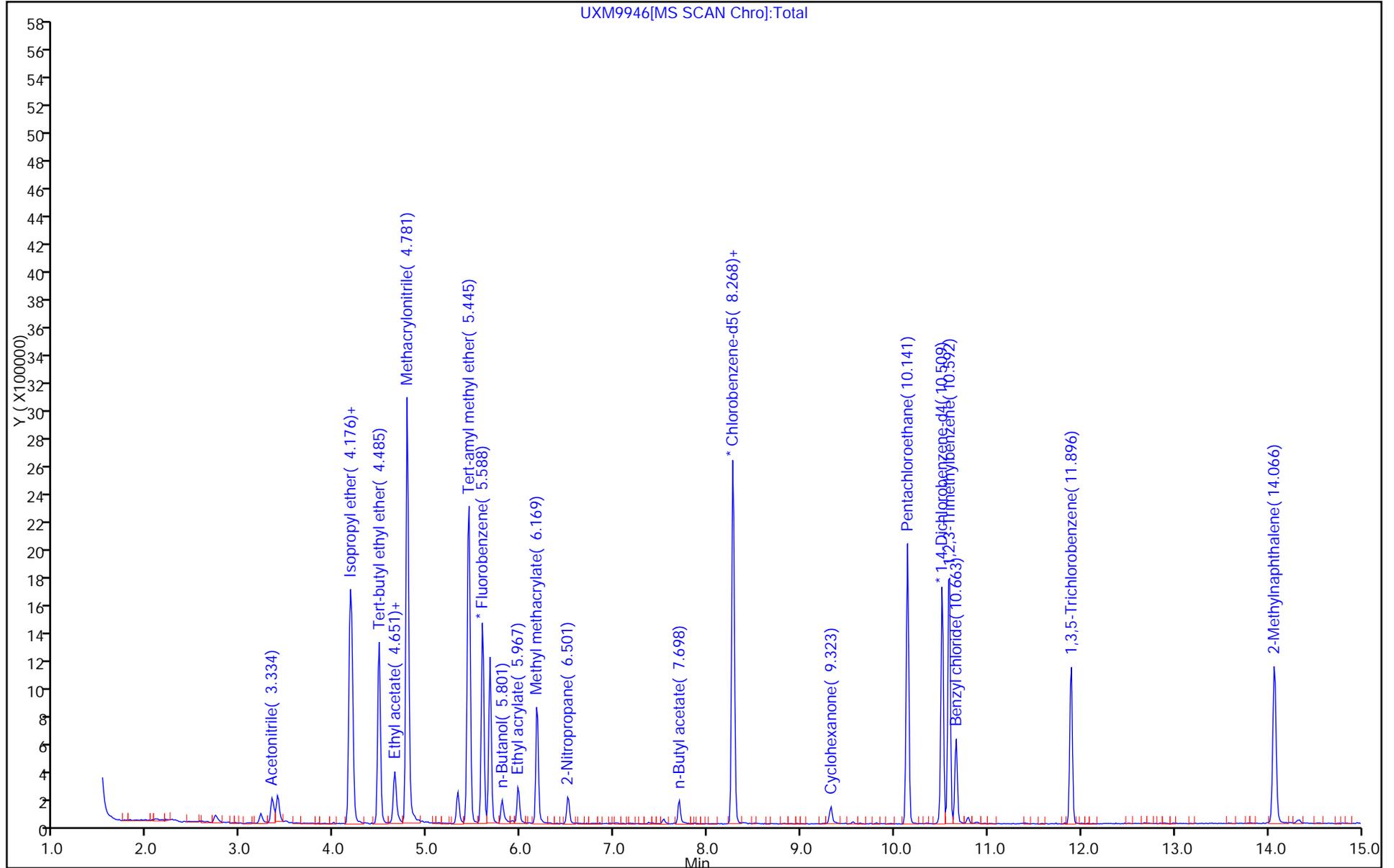
ALS Bottle#: 10

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9947.D  
 Lims ID: STDA9 L3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 28-Nov-2014 15:31:30 ALS Bottle#: 11 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-012  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:24 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 07:57:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	98	1399037	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	88	1042196	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	532536	10.0	10.0	
25 Acetonitrile	41	3.346	3.334	0.012	99	144824	50.0	46.5	
36 Isopropyl ether	87	4.176	4.164	0.012	93	152652	5.00	4.91	
37 2-Chloro-1,3-butadiene	53	4.188	4.188	0.000	95	341789	5.00	4.87	
38 Tert-butyl ethyl ether	59	4.485	4.485	-0.001	99	572805	5.00	4.74	
42 Propionitrile	54	4.651	4.651	0.000	99	185549	50.0	48.1	
43 Ethyl acetate	43	4.662	4.663	-0.001	98	78967	10.0	9.92	
44 Methacrylonitrile	41	4.781	4.781	0.000	93	847565	50.0	48.4	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	96	430749	5.00	4.82	
57 n-Butanol	56	5.801	5.801	0.000	87	65828	125.0	114.5	
59 Ethyl acrylate	55	5.979	5.967	0.012	98	170237	5.00	4.95	
62 Methyl methacrylate	41	6.168	6.169	-0.001	91	236330	10.0	9.69	
66 2-Nitropropane	41	6.500	6.501	-0.001	98	66701	10.0	9.07	
77 n-Butyl acetate	43	7.698	7.698	0.000	96	73002	5.00	4.86	
81 1-Chlorohexane	91	8.267	8.268	-0.001	88	196469	5.00	4.70	
91 Cyclohexanone	55	9.323	9.330	-0.007	90	31026	50.0	41.3	
103 Pentachloroethane	167	10.141	10.141	0.000	0	204499	10.0	9.49	
109 1,2,3-Trimethylbenzene	105	10.580	10.592	-0.012	98	627546	5.00	4.86	
110 Benzyl chloride	126	10.663	10.663	0.000	0	45861	5.00	4.19	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	97	225703	5.00	5.02	
119 2-Methylnaphthalene	142	14.078	14.066	0.012	91	417386	10.0	10.0	

**Reagents:**

VMRA9W\_00083

Amount Added: 4.00

Units: uL

VM50IS\_00045

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9947.D

Injection Date: 28-Nov-2014 15:31:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STDA9 L3

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

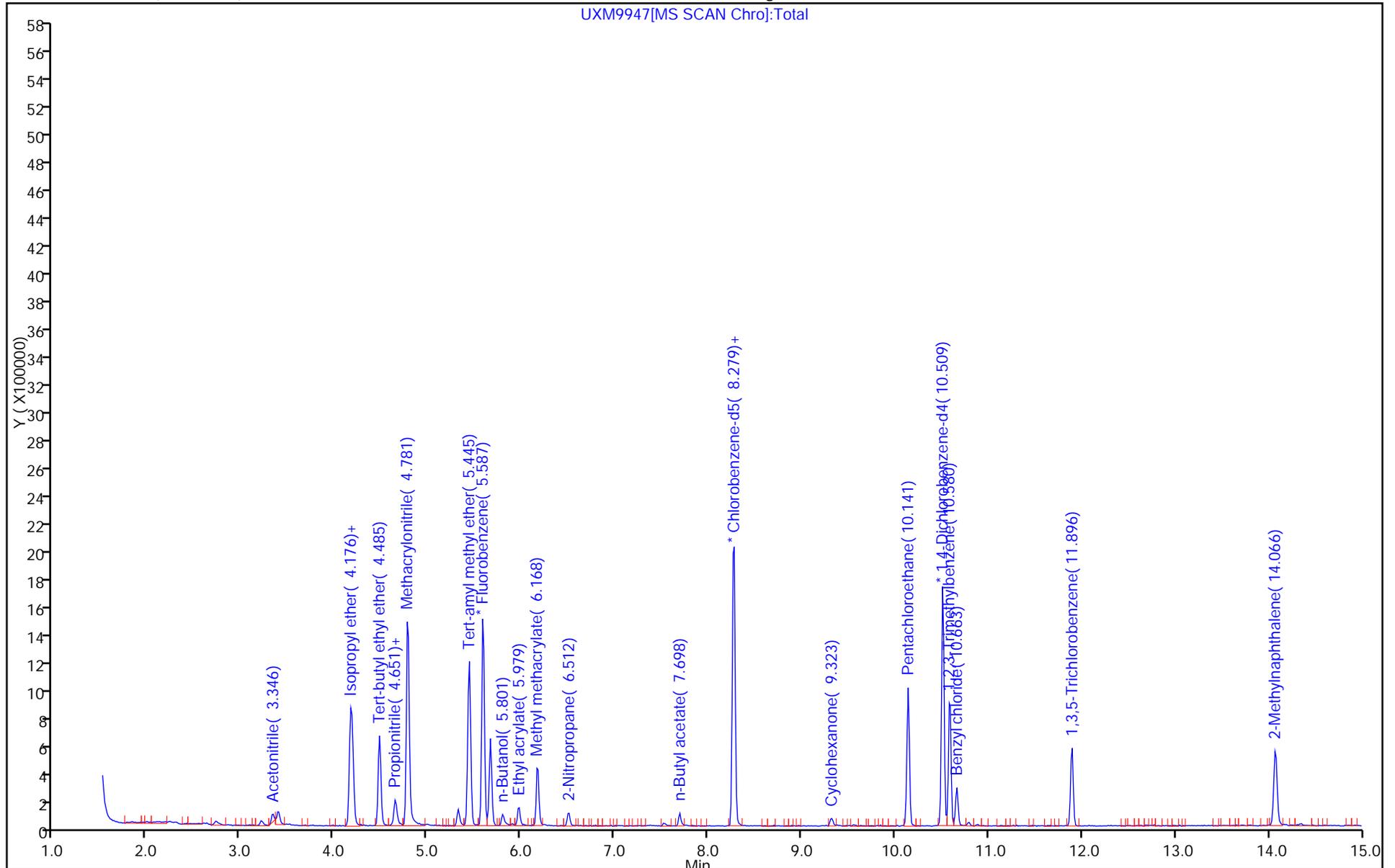
ALS Bottle#: 11

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9948.D  
 Lims ID: STDA9 L2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 28-Nov-2014 15:53:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-013  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:25 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 07:58:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1391488	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	88	1021346	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	520780	10.0	10.0	
25 Acetonitrile	41	3.346	3.334	0.012	98	61536	20.0	19.9	
36 Isopropyl ether	87	4.176	4.164	0.012	93	60556	2.00	1.96	
37 2-Chloro-1,3-butadiene	53	4.188	4.188	0.000	94	130221	2.00	1.86	
38 Tert-butyl ethyl ether	59	4.485	4.485	0.000	99	231540	2.00	1.93	
42 Propionitrile	54	4.651	4.651	0.000	97	72515	20.0	18.9	
43 Ethyl acetate	43	4.663	4.663	0.000	60	34023	4.00	4.30	
44 Methacrylonitrile	41	4.781	4.781	0.000	94	349335	20.0	20.1	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	95	167148	2.00	1.88	
57 n-Butanol	56	5.801	5.801	0.000	89	26092	50.0	45.6	
59 Ethyl acrylate	55	5.979	5.967	0.012	98	67195	2.00	1.97	
62 Methyl methacrylate	41	6.180	6.169	0.011	93	99161	4.00	4.09	
66 2-Nitropropane	41	6.501	6.501	0.000	97	27907	4.00	3.81	
77 n-Butyl acetate	43	7.698	7.698	0.000	89	30987	2.00	2.07	
81 1-Chlorohexane	91	8.268	8.268	0.000	82	78219	2.00	1.91	
91 Cyclohexanone	55	9.323	9.330	-0.007	92	15883	20.0	21.6	
103 Pentachloroethane	167	10.141	10.141	0.000	0	75620	4.00	3.58	
109 1,2,3-Trimethylbenzene	105	10.592	10.592	0.000	98	246306	2.00	1.95	
110 Benzyl chloride	126	10.663	10.663	0.000	0	17535	2.00	1.96	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	95	83736	2.00	1.90	
119 2-Methylnaphthalene	142	14.078	14.066	0.012	92	153240	4.00	3.77	

**Reagents:**

VMRA9W\_00083

Amount Added: 1.60

Units: uL

VM50IS\_00045

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9948.D

Injection Date: 28-Nov-2014 15:53:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STDA9 L2

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

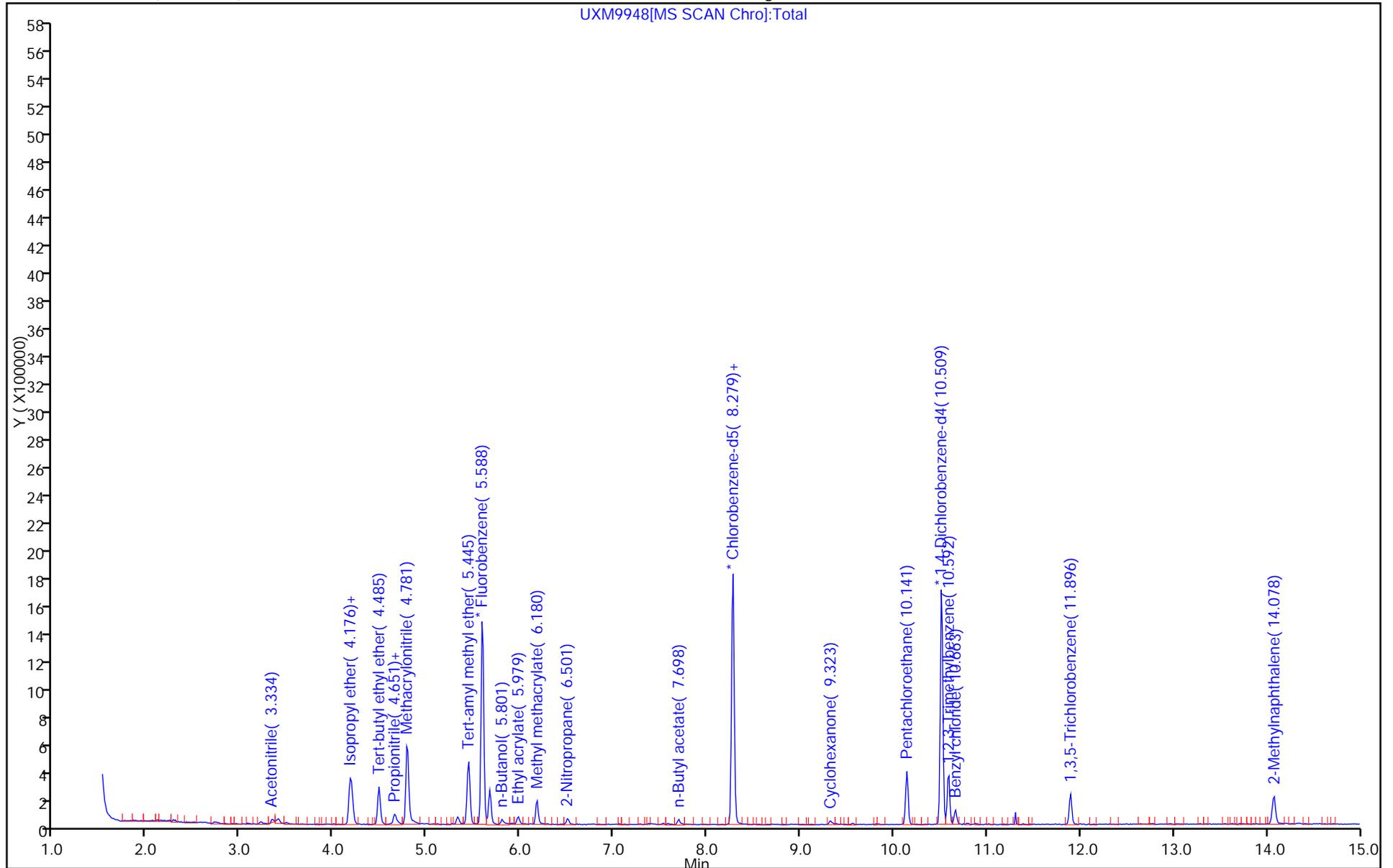
ALS Bottle#: 12

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Lims ID: STDA9 L1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 28-Nov-2014 16:16:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-014  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:26 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 07:59:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1332294	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	88	959022	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	533648	10.0	10.0	
25 Acetonitrile	41	3.346	3.334	0.012	95	30925	10.0	10.4	
36 Isopropyl ether	87	4.176	4.164	0.012	94	31573	1.00	1.07	
37 2-Chloro-1,3-butadiene	53	4.200	4.188	0.012	93	66623	1.00	1.00	
38 Tert-butyl ethyl ether	59	4.485	4.485	0.000	98	116412	1.00	1.01	
42 Propionitrile	54	4.663	4.651	0.012	88	33935	10.0	9.24	
43 Ethyl acetate	43	4.663	4.663	0.000	48	18262	2.00	2.41	
44 Methacrylonitrile	41	4.793	4.781	0.012	91	158730	10.0	9.53	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	94	84450	1.00	0.99	
57 n-Butanol	56	5.813	5.801	0.012	75	15733	25.0	28.7	
59 Ethyl acrylate	55	5.979	5.967	0.012	99	33636	1.00	1.03	
62 Methyl methacrylate	41	6.180	6.169	0.011	85	46573	2.00	2.01	
66 2-Nitropropane	41	6.501	6.501	0.000	95	13677	2.00	1.95	
77 n-Butyl acetate	43	7.698	7.698	0.000	97	15795	1.00	1.10	
81 1-Chlorohexane	91	8.268	8.268	0.000	85	42270	1.00	1.10	
91 Cyclohexanone	55	9.323	9.330	-0.007	92	9094	10.0	12.1	
103 Pentachloroethane	167	10.141	10.141	0.000	0	39504	2.00	1.99	
109 1,2,3-Trimethylbenzene	105	10.592	10.592	0.000	98	130077	1.00	1.01	
110 Benzyl chloride	126	10.663	10.663	0.000	0	9215	1.00	1.26	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	94	47705	1.00	1.06	
119 2-Methylnaphthalene	142	14.066	14.066	0.000	96	68969	2.00	1.65	

**Reagents:**

VMRA9W\_00083

Amount Added: 0.80

Units: uL

VM50IS\_00045

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D

Injection Date: 28-Nov-2014 16:16:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: STDA9 L1

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

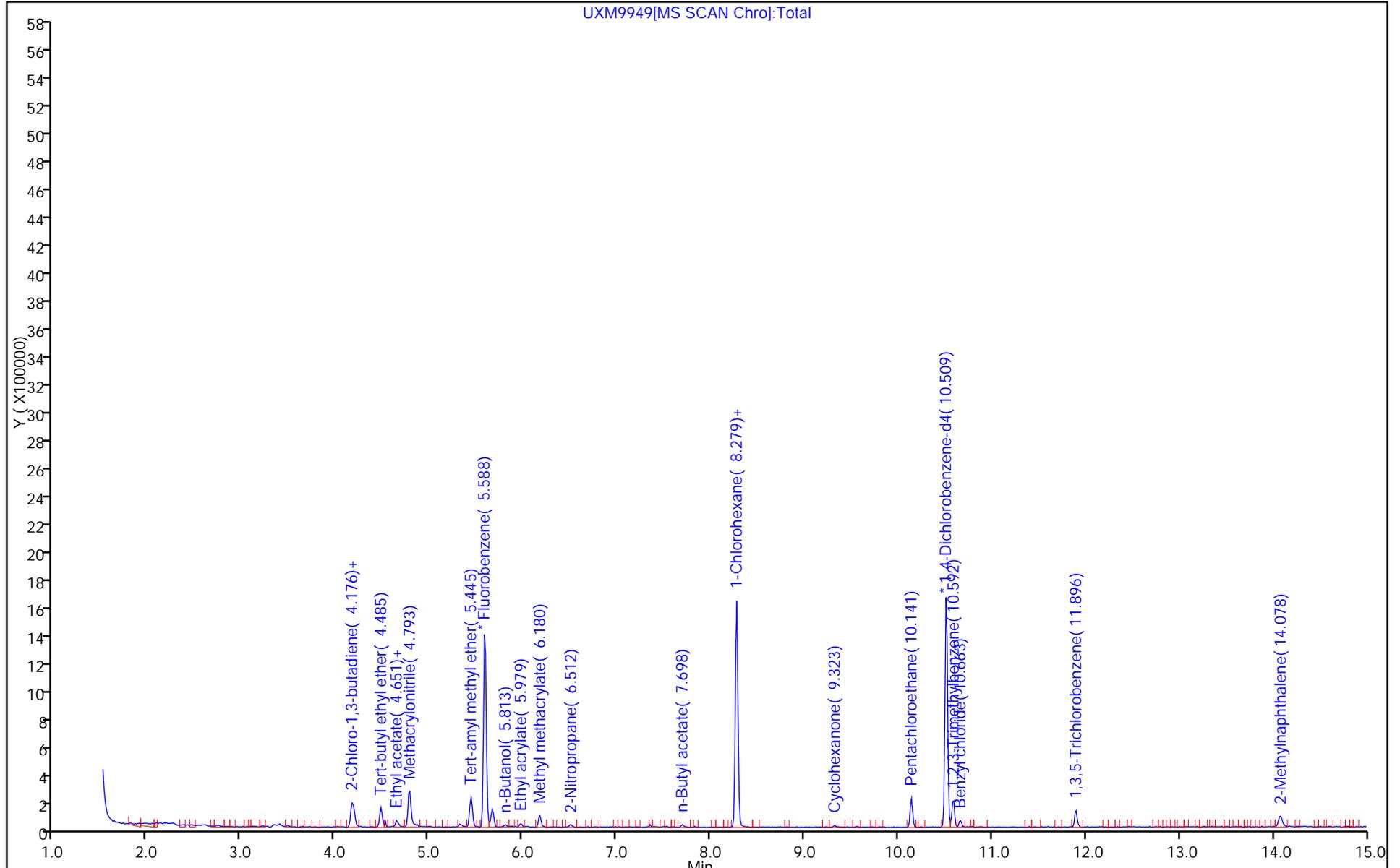
ALS Bottle#: 13

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-158763/7	UXR7662.D
Level 2	STD8260 240-158763/6	UXR7661.D
Level 3	STD8260 240-158763/5	UXR7660.D
Level 4	STD8260 240-158763/4	UXR7659.D
Level 5	STD8260 240-158763/3	UXR7658.D
Level 6	STD8260 240-158763/2	UXR7657.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2692 0.3064	0.2549	0.2779	0.2866	0.2901	Ave		0.2808			6.3		15.0				
Chloromethane	0.5515 0.4554	0.4662	0.4716	0.4571	0.4893	Ave		0.4818		0.1000	7.5		15.0				
Vinyl chloride	0.3549 0.3420	0.3438	0.3545	0.3468	0.3675	Ave		0.3516			2.7		15.0				
Butadiene	0.3742 0.3563	0.3478	0.3505	0.3469	0.3656	Ave		0.3569			3.1		15.0				
Bromomethane	0.2057 0.1433	0.1825	0.1754	0.1559	0.1734	Ave		0.1727			13.0		15.0				
Chloroethane	0.2048 0.1661	0.1867	0.1827	0.1612	0.1862	Ave		0.1813			8.7		15.0				
Dichlorofluoromethane	0.4378 0.4084	0.4320	0.4417	0.3957	0.4469	Ave		0.4271			4.8		15.0				
Trichlorofluoromethane	0.2764 0.3142	0.3005	0.3077	0.2915	0.3124	Ave		0.3005			4.8		15.0				
Ethyl ether	0.2543 0.2289	0.2069	0.2171	0.2268	0.2250	Ave		0.2265			7.0		15.0				
Acrolein	0.0123 0.0149	0.0141	0.0139	0.0141	0.0151	Ave		0.0141			7.2		15.0				
1,1-Dichloroethene	0.2763 0.2454	0.2446	0.2392	0.2351	0.2451	Ave		0.2476			5.9		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2059 0.1994	0.1945	0.1715	0.1806	0.1932	Ave		0.1908			6.6		15.0				
Acetone	0.1693 0.0755	0.0893	0.0642	0.0787	0.0701	Lin1	0.0818	0.0716						0.9940		0.9900	
Iodomethane	0.4016 0.3826	0.3849	0.3780	0.3730	0.4007	Ave		0.3868			3.1		15.0				
Carbon disulfide	0.6585 0.8365	0.6880	0.6996	0.7259	0.7995	Ave		0.7347			9.4		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1304 0.1567	0.1311	0.1346	0.1447	0.1561	Ave		0.1423			8.5		15.0				
Methyl acetate	0.1968 0.1825	0.1575	0.1688	0.1775	0.1778	Ave		0.1768			7.5		15.0				
Methylene Chloride	0.4333 0.2927	0.3424	0.3134	0.2967	0.3122	Lin1	0.0747	0.2960						0.9990		0.9900	
2-Methyl-2-propanol	0.0111 0.0105	0.0100	0.0101	0.0111	0.0108	Ave		0.0106			4.4		15.0				
Acrylonitrile	0.0896 0.0873	0.0787	0.0820	0.0846	0.0861	Ave		0.0847			4.6		15.0				
Methyl tert-butyl ether	0.5839 0.6226	0.5654	0.5679	0.5848	0.6080	Ave		0.5888			3.8		15.0				
trans-1,2-Dichloroethene	0.2952 0.2873	0.2745	0.2880	0.2886	0.2960	Ave		0.2883			2.7		15.0				
Hexane	0.0572 0.0662	0.0513	0.0524	0.0559	0.0598	Ave		0.0571			9.5		15.0				
1,1-Dichloroethane	0.5277 0.5180	0.5241	0.5089	0.5206	0.5300	Ave		0.5216		0.1000	1.5		15.0				
Vinyl acetate	0.0835 0.1172	0.0954	0.0981	0.1130	0.1121	Ave		0.1032			13.0		15.0				
2,2-Dichloropropane	0.2662 0.3018	0.2601	0.2630	0.2727	0.3077	Ave		0.2786			7.5		15.0				
cis-1,2-Dichloroethene	0.3133 0.3048	0.3022	0.2984	0.2985	0.3121	Ave		0.3049			2.1		15.0				
2-Butanone	0.1766 0.0970	0.0966	0.0902	0.0956	0.0922	Lin1	0.0618	0.0932						0.9970		0.9900	
Chlorobromomethane	0.1246 0.1308	0.1380	0.1270	0.1294	0.1318	Ave		0.1303			3.5		15.0				
Tetrahydrofuran	0.0846 0.0587	0.0560	0.0595	0.0594	0.0585	Lin1	0.0194	0.0581						0.9990		0.9900	
Chloroform	0.5012 0.4762	0.4750	0.4553	0.4655	0.4851	Ave		0.4764			3.3		15.0				
1,1,1-Trichloroethane	0.3484 0.3828	0.3549	0.3562	0.3539	0.3828	Ave		0.3632			4.3		15.0				
Cyclohexane	0.4399 0.5543	0.4456	0.4464	0.4839	0.5261	Ave		0.4827			9.9		15.0				
1,1-Dichloropropene	0.3092 0.3426	0.3044	0.3145	0.3264	0.3394	Ave		0.3227			4.9		15.0				
Carbon tetrachloride	0.2890 0.3246	0.2744	0.2779	0.2931	0.3145	Ave		0.2956			6.8		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6																
Isobutanol	0.0088 0.0084	0.0080	0.0076	0.0085	0.0082	Ave		0.0083			4.9		15.0				
Benzene	1.2139 1.1818	1.1795	1.1217	1.1765	1.1932	Ave		1.1778			2.6		15.0				
1,2-Dichloroethane	0.3959 0.3455	0.3568	0.3437	0.3517	0.3502	Ave		0.3573			5.5		15.0				
n-Heptane	0.0320 0.0595	0.0450	0.0470	0.0488	0.0547	Lin1	-0.019	0.0570						0.9950		0.9900	
Trichloroethene	0.3069 0.2691	0.2657	0.2602	0.2637	0.2715	Ave		0.2729			6.3		15.0				
Methylcyclohexane	0.3692 0.4299	0.3409	0.3414	0.3641	0.4008	Ave		0.3744			9.3		15.0				
1,2-Dichloropropane	0.2814 0.2832	0.2872	0.2762	0.2843	0.2892	Ave		0.2836			1.6		15.0				
1,4-Dioxane	0.0017 0.0014	0.0016	0.0017	0.0017	0.0017	Ave		0.0016			6.7		15.0				
Dibromomethane	0.1367 0.1297	0.1271	0.1264	0.1254	0.1324	Ave		0.1296			3.3		15.0				
Bromodichloromethane	0.2759 0.3322	0.2846	0.2855	0.3015	0.3257	Ave		0.3009			7.8		15.0				
2-Chloroethyl vinyl ether	0.0901 0.1230	0.0811	0.0928	0.1083	0.1118	Lin1	-0.069	0.1176						0.9940		0.9900	
cis-1,3-Dichloropropene	0.2402 0.3648	0.2678	0.2899	0.3206	0.3517	Lin1	-0.104	0.3556						0.9970		0.9900	
4-Methyl-2-pentanone (MIBK)	0.1699 0.2025	0.1511	0.1624	0.1875	0.1900	Ave		0.1772			11.0		15.0				
Toluene	1.5449 1.7471	1.6074	1.6400	1.7388	1.8142	Ave		1.6821			6.0		15.0				
trans-1,3-Dichloropropene	0.2538 0.4045	0.2670	0.2903	0.3438	0.3845	Lin1	-0.138	0.3903						0.9930		0.9900	
Ethyl methacrylate	0.2546 0.3368	0.2434	0.2631	0.3036	0.3162	Ave		0.2863			13.0		15.0				
1,1,2-Trichloroethane	0.3041 0.2822	0.2589	0.2713	0.2861	0.2855	Ave		0.2813			5.4		15.0				
Tetrachloroethene	0.3179 0.3026	0.3019	0.2978	0.3101	0.3107	Ave		0.3068			2.4		15.0				
1,3-Dichloropropane	0.5189 0.5126	0.5009	0.4923	0.5140	0.5104	Ave		0.5082			1.9		15.0				
2-Hexanone	0.1545 0.2041	0.1472	0.1601	0.1954	0.1922	Ave		0.1756			14.0		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6																
Dibromochloromethane	0.2269 0.2955	0.2125	0.2275	0.2608	0.2792	Ave		0.2504			13.0		15.0				
Ethylene Dibromide	0.2253 0.2609	0.2257	0.2381	0.2527	0.2567	Ave		0.2432			6.5		15.0				
Chlorobenzene	1.1406 1.0789	1.0306	1.0372	1.0589	1.1000	Ave		1.0744		0.3000	3.9		15.0				
1,1,1,2-Tetrachloroethane	0.2970 0.3632	0.3141	0.3196	0.3366	0.3729	Ave		0.3339			8.8		15.0				
Ethylbenzene	0.5171 0.6054	0.5102	0.5207	0.5821	0.6111	Ave		0.5578			8.4		15.0				
m-Xylene & p-Xylene	0.5521 0.7480	0.5916	0.6534	0.7179	0.7547	Ave		0.6696			13.0		15.0				
o-Xylene	0.5536 0.7448	0.6310	0.6771	0.7021	0.7548	Ave		0.6772			11.0		15.0				
Styrene	0.7802 1.1665	0.8637	0.9868	1.0682	1.1596	Lin1	-0.314	1.1544						0.9980		0.9900	
Bromoform	0.0995 0.1544	0.1010	0.1144	0.1292	0.1402	Lin1	-0.050	0.1471		0.1000				0.9930		0.9900	
Isopropylbenzene	1.3702 1.9299	1.5107	1.6513	1.7852	1.9501	Ave		1.6996			14.0		15.0				
1,1,2,2-Tetrachloroethane	0.6646 0.6432	0.6218	0.5846	0.6210	0.6306	Ave		0.6276		0.3000	4.2		15.0				
Bromobenzene	0.7173 0.8388	0.7352	0.7704	0.7868	0.8137	Ave		0.7770			5.9		15.0				
1,2,3-Trichloropropane	0.2051 0.1942	0.1640	0.1825	0.1874	0.1831	Ave		0.1860			7.4		15.0				
trans-1,4-Dichloro-2-butene	0.1262 0.1806	0.1171	0.1445	0.1546	0.1544	Lin1	-0.050	0.1700						0.9920		0.9900	
N-Propylbenzene	0.7215 0.9898	0.7739	0.8300	0.9262	0.9674	Ave		0.8681			13.0		15.0				
2-Chlorotoluene	0.6987 0.8317	0.7365	0.7728	0.7987	0.8331	Ave		0.7786			6.9		15.0				
1,3,5-Trimethylbenzene	2.1369 3.1310	2.4295	2.7009	2.9218	3.1220	Ave		2.7403			15.0		15.0				
4-Chlorotoluene	0.6963 0.8557	0.7645	0.8155	0.8427	0.8613	Ave		0.8060			8.0		15.0				
tert-Butylbenzene	1.9050 2.6682	2.1171	2.2399	2.4377	2.6316	Ave		2.3333			13.0		15.0				
1,2,4-Trimethylbenzene	2.1176 3.3147	2.7094	2.9005	3.0525	3.2760	Ave		2.8951			15.0		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6																
sec-Butylbenzene	2.6892 3.6977	3.0827	3.1355	3.3642	3.6128	Ave		3.2637			11.0		15.0				
1,3-Dichlorobenzene	1.5061 1.6795	1.5757	1.5698	1.6196	1.6620	Ave		1.6021			4.0		15.0				
4-Isopropyltoluene	2.0953 3.2546	2.5047	2.7525	2.9918	3.1540	Lin1	-0.855	3.2017						0.9980		0.9900	
1,4-Dichlorobenzene	1.6472 1.6733	1.6526	1.5880	1.6319	1.6358	Ave		1.6381			1.7		15.0				
n-Butylbenzene	2.0826 2.7961	2.2034	2.2458	2.4983	2.6736	Ave		2.4166			12.0		15.0				
1,2-Dichlorobenzene	1.6784 1.6119	1.5213	1.5562	1.5804	1.6138	Ave		1.5936			3.4		15.0				
1,2-Dibromo-3-Chloropropane	0.0579 0.0929	0.0656	0.0688	0.0771	0.0862	Lin1	-0.030	0.0889						0.9940		0.9900	
1,2,4-Trichlorobenzene	1.0382 1.0532	0.9140	0.9464	0.9876	1.0610	Ave		1.0001			6.1		15.0				
Hexachlorobutadiene	0.4958 0.3703	0.3854	0.4038	0.3745	0.3997	Ave		0.4049			11.0		15.0				
Naphthalene	1.3934 2.2202	1.3754	1.6184	1.8804	2.0754	Lin1	-0.778	2.1332						0.9930		0.9900	
1,2,3-Trichlorobenzene	0.9437 0.9236	0.8579	0.8846	0.9144	0.9521	Ave		0.9127			3.9		15.0				
Dibromofluoromethane (Surr)	0.2370 0.2354	0.2232	0.2260	0.2338	0.2470	Ave		0.2337			3.6		15.0				
1,2-Dichloroethane-d4 (Surr)	0.3089 0.2889	0.3153	0.3002	0.2932	0.2990	Ave		0.3009			3.3		15.0				
Toluene-d8 (Surr)	1.2204 1.4563	1.3155	1.3686	1.4321	1.5230	Ave		1.3860			7.8		15.0				
4-Bromofluorobenzene (Surr)	0.4598 0.5316	0.4535	0.5038	0.5134	0.5437	Ave		0.5010			7.4		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-158763/7	UXR7662.D
Level 2	STD8260 240-158763/6	UXR7661.D
Level 3	STD8260 240-158763/5	UXR7660.D
Level 4	STD8260 240-158763/4	UXR7659.D
Level 5	STD8260 240-158763/3	UXR7658.D
Level 6	STD8260 240-158763/2	UXR7657.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	20592 2028730	77514	219109	479526	929366	0.500 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	42178 3015348	141785	371910	764767	1567368	0.500 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	27142 2264887	104557	279583	580242	1177312	0.500 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	28616 2359379	105772	276377	580416	1171318	0.500 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	15733 949167	55504	138327	260793	555595	0.500 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	15662 1100146	56783	144064	269787	596571	0.500 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	33487 2704088	131393	348308	662164	1431567	0.500 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	21139 2080504	91400	242607	487774	1000891	0.500 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	19449 1515680	62934	171170	379532	720860	0.500 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	4695 494258	21477	54803	118120	242477	2.50 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	21133 1625146	74376	188592	393331	785123	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	15744 1320343	59138	135255	302188	619070	0.500 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	25894 999493	54318	101283	263347	449442	1.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	30712 2533493	117060	298057	624120	1283599	0.500 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	50360 5539163	209221	551671	1214610	2561215	0.500 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	9975 1037331	39876	106169	242075	500136	0.500 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	75277 6043458	239454	665562	1485083	2848662	2.50 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	33137 1938296	104130	247166	496470	1000301	0.500 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	8481 698108	30324	79958	185252	344609	5.00 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	68524 5780730	239279	646278	1414911	2756752	5.00 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	44655 4122791	171958	447858	978480	1947724	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	22579 1902292	83474	227146	482956	948284	0.500 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	4378 438250	15615	41313	93583	191560	0.500 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	40362 3430105	159395	401283	871060	1697903	0.500 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	6132 745272	27861	74238	181477	344674	0.480 38.4	1.92	4.80	9.60	19.2
2,2-Dichloropropane	FB	Ave	20361 1998761	79104	207381	456198	985886	0.500 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	23959 2018316	91897	235288	499472	999790	0.500 40.0	2.00	5.00	10.0	20.0
2-Butanone	FB	Lin1	27019 1284055	58763	142327	320006	590856	1.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	9531 866288	41969	100183	216458	422207	0.500 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Lin1	12939 777141	34089	93865	198881	375059	1.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	38329 3153277	144454	359070	778885	1554060	0.500 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	26644 2535044	107945	280910	592205	1226341	0.500 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	33648 3670474	135524	352030	809657	1685310	0.500 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	23651 2268322	92567	247983	546178	1087140	0.500 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	22101 2149450	83459	219130	490375	1007632	0.500 40.0	2.00	5.00	10.0	20.0
Isobutanol	CBZ	Ave	11991 969294	41956	103000	240508	444293	12.5 1000	50.0	125	250	500
Benzene	FB	Ave	92839 7825785	358706	884508	1968557	3822605	0.500 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloroethane	FB	Ave	30278 2287623	108497	271016	588456	1121752	0.500 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Linl	2446 393669	13679	37047	81687	175099	0.500 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	23474 1781661	80811	205197	441261	869804	0.500 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	28238 2846774	103680	269193	609221	1283925	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	21524 1875132	87331	217778	475709	926405	0.500 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	2599 187729	9860	26341	57005	107547	10.0 800	40.0	100	200	400
Dibromomethane	FB	Ave	10457 859057	38664	99651	209846	424038	0.500 40.0	2.00	5.00	10.0	20.0
Bromodichloromethane	FB	Ave	21098 2199678	86551	225155	504512	1043484	0.500 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Linl	13788 1629460	49303	146394	362409	716073	1.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Linl	18369 2415485	81442	228578	536504	1126669	0.500 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	25986 2681839	91912	256145	627295	1217465	1.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	84175 8059213	336656	884286	1970328	3917521	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Linl	13827 1865846	55913	156522	389620	830197	0.500 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	13874 1553792	50982	141863	344011	682677	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	16568 1301858	54219	146276	324202	616434	0.500 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	17323 1395797	63230	160583	351339	670981	0.500 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	28274 2364385	104903	265440	582371	1102182	0.500 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	16838 1882761	61676	172678	442730	829942	1.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	12364 1363072	44516	122656	295510	602932	0.500 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	12274 1203700	47265	128373	286288	554224	0.500 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	62148 4976913	215847	559245	1199865	2375375	0.500 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	16182 1675588	65790	172329	381447	805119	0.500 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	28175 2792657	106865	280765	659597	1319597	0.500 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	30082 3450433	123906	352326	813426	1629555	0.500 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	30162 3435699	132154	365079	795528	1629876	0.500 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Lin1	42509 5380793	180885	532070	1210446	2503863	0.500 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Lin1	5420 712376	21161	61670	146432	302741	0.500 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	74656 8902612	316396	890372	2022795	4210904	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	18788 1566419	69516	168134	376517	740085	0.500 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	20276 2042809	82194	221592	477022	954933	0.500 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	5797 472858	18337	52481	113610	214901	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	3568 439834	13088	41571	93755	181150	0.500 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	20396 2410685	86516	238737	561582	1135304	0.500 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	19750 2025525	82345	222261	484238	977721	0.500 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	60405 7625471	271613	776843	1771475	3663926	0.500 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	19684 2083966	85476	234559	510962	1010845	0.500 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	53850 6498521	236693	644254	1478006	3088447	0.500 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	59860 8072857	302910	834240	1850755	3844693	0.500 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	76020 9005722	344646	901838	2039736	4239942	0.500 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	42575 4090402	176163	451510	981962	1950555	0.500 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Lin1	59231 7926696	280029	791678	1813943	3701537	0.500 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	46562 4075321	184755	456733	989444	1919803	0.500 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158763

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 09:44 Calibration End Date: 11/28/2014 11:36 Calibration ID: 25563

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	58870 6809831	246335	645928	1514756	3137760	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	47444 3925791	170077	447586	958198	1893911	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	1636 226244	7335	19795	46760	101171	0.500 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	29347 2565176	102188	272208	598816	1245171	0.500 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	14014 901842	43090	116139	227079	469086	0.500 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Lin1	39390 5407203	153769	465491	1140070	2435662	0.500 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	26678 2249415	95917	254415	554416	1117397	0.500 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	18127 1558701	67888	178194	391124	791361	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	23626 1912771	95900	236727	490563	957944	0.500 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	66492 6717847	275512	737935	1622798	3288616	0.500 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	25053 2452199	94981	271673	581732	1173998	0.500 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

Lin1 = Linear 1/conc ISTD

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7657.D  
 Lims ID: STD8260 L6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 28-Nov-2014 09:44:30 ALS Bottle#: 1 Worklist Smp#: 2  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037983-002  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub12  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 28-Nov-2014 14:50:53 Calib Date: 28-Nov-2014 11:36:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: quayler

Date: 28-Nov-2014 10:11:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1655453	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	89	1153219	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	95	608876	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	93	1558701	40.0	40.3	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	1912771	40.0	38.4	
\$ 6 Toluene-d8 (Surr)	98	7.139	7.139	0.000	94	6717847	40.0	42.0	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	89	2452199	40.0	42.4	
9 Dichlorodifluoromethane	85	1.648	1.660	-0.012	99	2028730	40.0	43.6	
10 Chloromethane	50	1.815	1.814	0.000	99	3015348	40.0	37.8	
11 Vinyl chloride	62	1.933	1.933	0.000	98	2264887	40.0	38.9	
119 Butadiene	54	1.981	1.980	0.001	0	2359379	40.0	39.9	
12 Bromomethane	94	2.289	2.300	-0.011	92	949167	40.0	33.2	
13 Chloroethane	64	2.396	2.407	-0.011	99	1100146	40.0	36.7	
14 Dichlorofluoromethane	67	2.609	2.609	0.000	97	2704088	40.0	38.2	
15 Trichlorofluoromethane	101	2.656	2.656	0.000	97	2080504	40.0	41.8	
16 Ethyl ether	59	2.941	2.941	0.000	96	1515680	40.0	40.4	
18 Acrolein	56	3.083	3.083	0.000	99	494258	200.0	212.0	
19 1,1-Dichloroethene	96	3.166	3.166	0.000	95	1625146	40.0	39.6	
20 1,1,2-Trichloro-1,2,2-trif	151	3.178	3.178	0.000	94	1320343	40.0	41.8	
21 Acetone	43	3.226	3.225	0.001	99	999493	80.0	83.2	
22 Iodomethane	142	3.321	3.320	0.001	98	2533493	40.0	39.6	
23 Carbon disulfide	76	3.380	3.380	0.000	100	5539163	40.0	45.5	
25 3-Chloro-1-propene	76	3.510	3.510	0.000	91	1037331	40.0	44.0	
26 Methyl acetate	43	3.534	3.534	0.000	99	6043458	200.0	206.4	
27 Methylene Chloride	84	3.629	3.629	0.000	99	1938296	40.0	39.3	
28 2-Methyl-2-propanol	59	3.736	3.735	0.001	92	698108	400.0	398.0	
29 Acrylonitrile	53	3.866	3.866	0.000	100	5780730	400.0	412.3	
30 Methyl tert-butyl ether	73	3.878	3.878	0.000	97	4122791	40.0	42.3	
31 trans-1,2-Dichloroethene	96	3.878	3.878	0.000	97	1902292	40.0	39.9	
32 Hexane	86	4.115	4.115	0.000	95	438250	40.0	46.3	
33 1,1-Dichloroethane	63	4.257	4.257	0.000	96	3430105	40.0	39.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Vinyl acetate	43	4.293	4.293	0.000	98	745272	38.4	43.6	
39 cis-1,2-Dichloroethene	96	4.767	4.767	0.000	84	2018316	40.0	40.0	
38 2,2-Dichloropropane	77	4.767	4.767	0.000	66	1998761	40.0	43.3	
40 2-Butanone (MEK)	43	4.779	4.779	0.000	99	1284055	80.0	82.5	
44 Chlorobromomethane	128	4.981	4.980	0.001	93	866288	40.0	40.2	
45 Tetrahydrofuran	42	5.016	5.016	0.000	94	777141	80.0	80.4	
46 Chloroform	83	5.040	5.040	0.000	94	3153277	40.0	40.0	
47 1,1,1-Trichloroethane	97	5.206	5.206	0.000	97	2535044	40.0	42.2	
48 Cyclohexane	56	5.253	5.253	0.000	94	3670474	40.0	45.9	
49 1,1-Dichloropropene	75	5.348	5.348	0.000	92	2268322	40.0	42.5	
50 Carbon tetrachloride	117	5.348	5.348	0.000	89	2149450	40.0	43.9	
51 Isobutyl alcohol	41	5.419	5.419	0.000	94	969294	1000.0	1017.1	
52 Benzene	78	5.526	5.526	0.000	97	7825785	40.0	40.1	
53 1,2-Dichloroethane	62	5.550	5.550	0.000	97	2287623	40.0	38.7	
55 n-Heptane	100	5.716	5.728	-0.012	97	393669	40.0	42.1	
57 Trichloroethene	130	6.084	6.083	0.001	98	1781661	40.0	39.4	
59 Methylcyclohexane	83	6.238	6.237	0.001	95	2846774	40.0	45.9	
60 1,2-Dichloropropane	63	6.285	6.285	0.000	95	1875132	40.0	39.9	
63 1,4-Dioxane	88	6.392	6.392	0.000	39	187729	800.0	695.0	
62 Dibromomethane	93	6.392	6.392	0.000	95	859057	40.0	40.0	
64 Dichlorobromomethane	83	6.510	6.510	0.000	98	2199678	40.0	44.2	
66 2-Chloroethyl vinyl ether	63	6.760	6.759	0.001	92	1629460	80.0	84.3	
67 cis-1,3-Dichloropropene	75	6.902	6.902	0.000	93	2415485	40.0	41.3	
68 4-Methyl-2-pentanone (MIBK)	43	7.032	7.032	0.000	99	2681839	80.0	91.4	
69 Toluene	91	7.210	7.210	0.000	97	8059213	40.0	41.5	
70 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	96	1865846	40.0	41.8	
71 Ethyl methacrylate	69	7.447	7.447	0.000	93	1553792	40.0	47.1	
72 1,1,2-Trichloroethane	97	7.566	7.566	0.000	92	1301858	40.0	40.1	
73 Tetrachloroethene	164	7.696	7.696	0.000	97	1395797	40.0	39.4	
75 1,3-Dichloropropane	76	7.720	7.720	0.000	96	2364385	40.0	40.3	
76 2-Hexanone	43	7.779	7.779	0.000	99	1882761	80.0	93.0	
78 Chlorodibromomethane	129	7.933	7.933	0.000	91	1363072	40.0	47.2	
79 Ethylene Dibromide	107	8.052	8.052	0.000	99	1203700	40.0	42.9	
81 Chlorobenzene	112	8.503	8.502	0.001	94	4976913	40.0	40.2	
82 1,1,1,2-Tetrachloroethane	131	8.574	8.574	0.000	93	1675588	40.0	43.5	
83 Ethylbenzene	106	8.586	8.585	0.001	99	2792657	40.0	43.4	
84 m-Xylene & p-Xylene	106	8.692	8.692	0.000	100	3450433	40.0	44.7	
85 o-Xylene	106	9.072	9.084	-0.012	96	3435699	40.0	44.0	
86 Styrene	104	9.096	9.095	0.001	95	5380793	40.0	40.7	
87 Bromoform	173	9.285	9.285	0.000	97	712376	40.0	42.3	
89 Isopropylbenzene	105	9.428	9.427	0.001	95	8902612	40.0	45.4	
91 1,1,2,2-Tetrachloroethane	83	9.712	9.712	0.000	94	1566419	40.0	41.0	
92 Bromobenzene	156	9.748	9.748	0.000	96	2042809	40.0	43.2	
93 trans-1,4-Dichloro-2-buten	53	9.772	9.771	0.001	68	439834	40.0	42.8	
94 1,2,3-Trichloropropane	110	9.772	9.771	0.001	83	472858	40.0	41.7	
95 N-Propylbenzene	120	9.819	9.819	0.000	99	2410685	40.0	45.6	
96 2-Chlorotoluene	126	9.926	9.925	0.001	96	2025525	40.0	42.7	
97 1,3,5-Trimethylbenzene	105	9.985	9.985	0.000	93	7625471	40.0	45.7	
98 4-Chlorotoluene	126	10.032	10.032	0.000	99	2083966	40.0	42.5	
99 tert-Butylbenzene	119	10.317	10.317	0.000	93	6498521	40.0	45.7	
101 1,2,4-Trimethylbenzene	105	10.364	10.364	0.000	95	8072857	40.0	45.8	
102 sec-Butylbenzene	105	10.531	10.530	0.000	94	9005722	40.0	45.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.661	10.661	0.000	99	4090402	40.0	41.9	
104 4-Isopropyltoluene	119	10.673	10.673	0.000	98	7926696	40.0	40.9	
105 1,4-Dichlorobenzene	146	10.744	10.744	0.000	95	4075321	40.0	40.9	
108 n-Butylbenzene	91	11.076	11.076	0.000	98	6809831	40.0	46.3	
109 1,2-Dichlorobenzene	146	11.123	11.123	0.000	98	3925791	40.0	40.5	
111 1,2-Dibromo-3-Chloropropan	157	11.906	11.906	0.000	83	226244	40.0	42.1	
113 1,2,4-Trichlorobenzene	180	12.724	12.724	0.000	94	2565176	40.0	42.1	
114 Hexachlorobutadiene	225	12.890	12.890	0.000	97	901842	40.0	36.6	
115 Naphthalene	128	12.985	12.997	-0.012	100	5407203	40.0	42.0	
116 1,2,3-Trichlorobenzene	180	13.258	13.258	0.000	98	2249415	40.0	40.5	
S 128 1,2-Dichloroethene, Total	96				0		80.0	79.9	
S 129 1,3-Dichloropropene, Total	75				0		80.0	83.1	
S 130 Xylenes, Total	106				0		80.0	88.7	
S 131 Trihalomethanes, Total	1				0		160.0	173.7	

**Reagents:**

VMRGAS_00080	Amount Added: 32.00	Units: uL
VMAROLISTDW_00075	Amount Added: 32.00	Units: uL
VMRPRIMW_00099	Amount Added: 32.00	Units: uL
vm50ss_00179	Amount Added: 32.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7657.D

Injection Date: 28-Nov-2014 09:44:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STD8260 L6

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

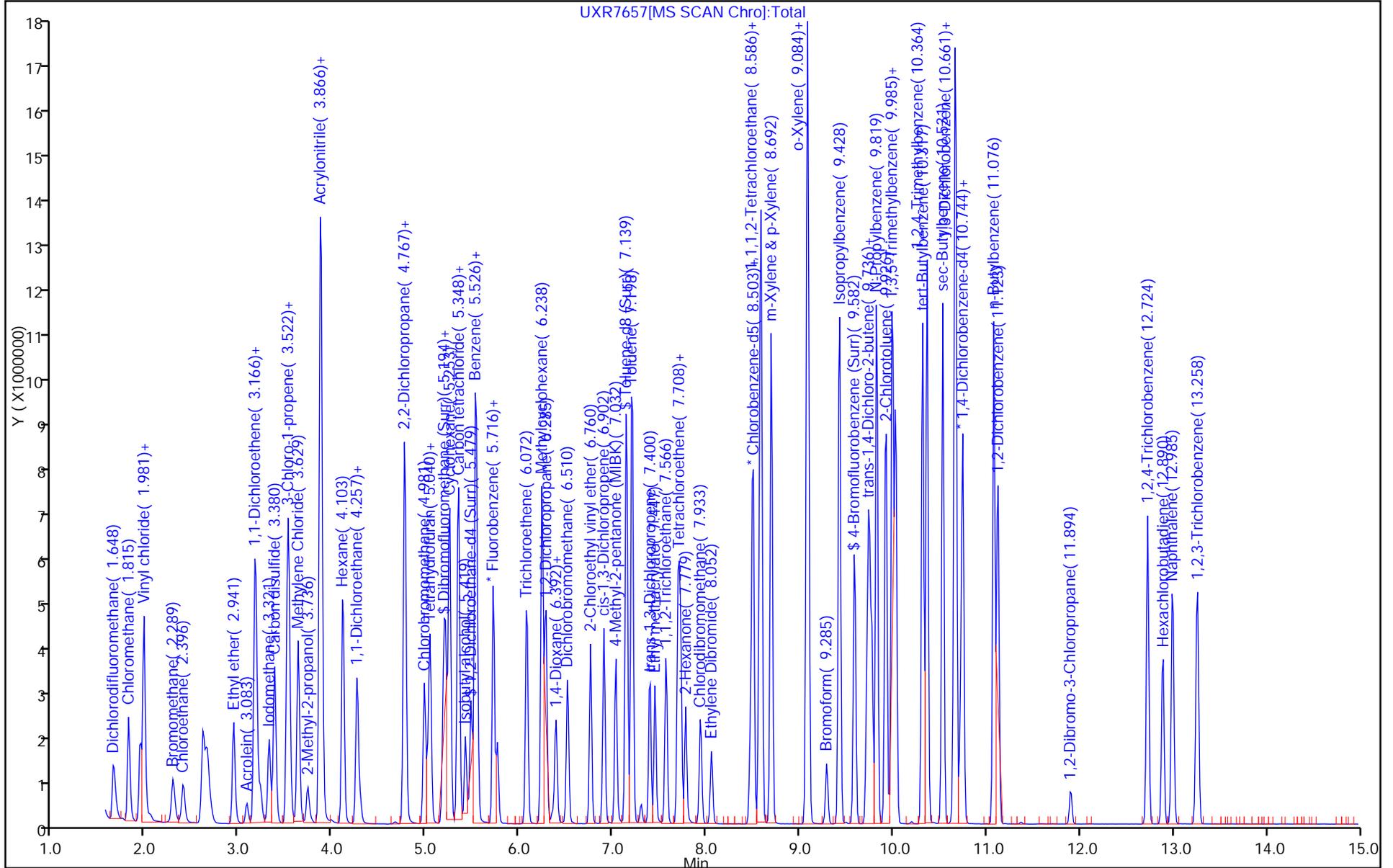
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7658.D

Lims ID: STD8260 L5

Client ID:

Sample Type: IC

Calib Level: 5

Inject. Date: 28-Nov-2014 10:07:30

ALS Bottle#: 2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Sample Info: 240-0037983-003

Operator ID: 1904

Instrument ID: A3UX17

Sublist: chrom-8260\_17\*sub12

Method: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\8260\_17.m

Limit Group: MSV 8260B ICAL

Last Update: 28-Nov-2014 14:50:54

Calib Date: 28-Nov-2014 11:36:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D

Column 1 : DB-624 ( 0.18 mm)

Det: MS SCAN

Process Host: XAWRK028

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1601769	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.479	8.467	0.012	86	1079670	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	94	586796	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	94	791361	20.0	21.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	957944	20.0	19.9	
\$ 6 Toluene-d8 (Surr)	98	7.139	7.139	0.000	94	3288616	20.0	22.0	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	89	1173998	20.0	21.7	
9 Dichlorodifluoromethane	85	1.648	1.660	-0.012	99	929366	20.0	20.7	
10 Chloromethane	50	1.814	1.814	0.000	99	1567368	20.0	20.3	
11 Vinyl chloride	62	1.933	1.933	0.000	98	1177312	20.0	20.9	
119 Butadiene	54	1.980	1.980	0.000	0	1171318	20.0	20.5	
12 Bromomethane	94	2.289	2.300	-0.011	91	555595	20.0	20.1	
13 Chloroethane	64	2.395	2.407	-0.012	99	596571	20.0	20.5	
14 Dichlorofluoromethane	67	2.609	2.609	0.000	97	1431567	20.0	20.9	
15 Trichlorofluoromethane	101	2.656	2.656	0.000	98	1000891	20.0	20.8	
16 Ethyl ether	59	2.941	2.941	0.000	95	720860	20.0	19.9	
18 Acrolein	56	3.083	3.083	0.000	99	242477	100.0	107.5	
19 1,1-Dichloroethene	96	3.166	3.166	0.000	95	785123	20.0	19.8	
20 1,1,2-Trichloro-1,2,2-trif	151	3.178	3.178	0.000	92	619070	20.0	20.3	
21 Acetone	43	3.226	3.225	0.001	98	449442	40.0	38.1	
22 Iodomethane	142	3.320	3.320	0.000	98	1283599	20.0	20.7	
23 Carbon disulfide	76	3.380	3.380	0.000	100	2561215	20.0	21.8	
25 3-Chloro-1-propene	76	3.522	3.510	0.012	90	500136	20.0	21.9	
26 Methyl acetate	43	3.534	3.534	0.000	99	2848662	100.0	100.6	
27 Methylene Chloride	84	3.629	3.629	0.000	99	1000301	20.0	20.8	
28 2-Methyl-2-propanol	59	3.735	3.735	0.000	92	344609	200.0	203.1	
29 Acrylonitrile	53	3.866	3.866	0.000	100	2756752	200.0	203.2	
30 Methyl tert-butyl ether	73	3.878	3.878	0.000	96	1947724	20.0	20.7	
31 trans-1,2-Dichloroethene	96	3.878	3.878	0.000	97	948284	20.0	20.5	
32 Hexane	86	4.115	4.115	0.000	95	191560	20.0	20.9	
33 1,1-Dichloroethane	63	4.257	4.257	0.000	96	1697903	20.0	20.3	
34 Vinyl acetate	43	4.293	4.293	0.000	96	344674	19.2	20.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.767	4.767	0.000	85	999790	20.0	20.5	
38 2,2-Dichloropropane	77	4.767	4.767	0.000	66	985886	20.0	22.1	
40 2-Butanone (MEK)	43	4.779	4.779	0.000	98	590856	40.0	38.9	
44 Chlorobromomethane	128	4.981	4.980	0.001	93	422207	20.0	20.2	
45 Tetrahydrofuran	42	5.016	5.016	0.000	96	375059	40.0	39.9	
46 Chloroform	83	5.040	5.040	0.000	94	1554060	20.0	20.4	
47 1,1,1-Trichloroethane	97	5.206	5.206	0.000	98	1226341	20.0	21.1	
48 Cyclohexane	56	5.253	5.253	0.000	94	1685310	20.0	21.8	
49 1,1-Dichloropropene	75	5.348	5.348	0.000	92	1087140	20.0	21.0	
50 Carbon tetrachloride	117	5.348	5.348	0.000	88	1007632	20.0	21.3	
51 Isobutyl alcohol	41	5.419	5.419	0.000	92	444293	500.0	498.0	
52 Benzene	78	5.526	5.526	0.000	97	3822605	20.0	20.3	
53 1,2-Dichloroethane	62	5.550	5.550	0.000	96	1121752	20.0	19.6	
55 n-Heptane	100	5.728	5.728	0.000	96	175099	20.0	19.5	
57 Trichloroethene	130	6.083	6.083	0.000	97	869804	20.0	19.9	
59 Methylcyclohexane	83	6.238	6.237	0.001	96	1283925	20.0	21.4	
60 1,2-Dichloropropane	63	6.285	6.285	0.000	96	926405	20.0	20.4	
63 1,4-Dioxane	88	6.392	6.392	0.000	41	107547	400.0	411.5	
62 Dibromomethane	93	6.392	6.392	0.000	96	424038	20.0	20.4	
64 Dichlorobromomethane	83	6.510	6.510	0.000	99	1043484	20.0	21.7	
66 2-Chloroethyl vinyl ether	63	6.759	6.759	0.000	92	716073	40.0	38.6	
67 cis-1,3-Dichloropropene	75	6.902	6.902	0.000	93	1126669	20.0	20.1	
68 4-Methyl-2-pentanone (MIBK)	43	7.032	7.032	0.000	99	1217465	40.0	42.9	
69 Toluene	91	7.210	7.210	0.000	98	3917521	20.0	21.6	
70 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	96	830197	20.0	20.1	
71 Ethyl methacrylate	69	7.447	7.447	0.000	93	682677	20.0	22.1	
72 1,1,2-Trichloroethane	97	7.566	7.566	0.000	91	616434	20.0	20.3	
73 Tetrachloroethene	164	7.696	7.696	0.000	97	670981	20.0	20.3	
75 1,3-Dichloropropane	76	7.720	7.720	0.000	97	1102182	20.0	20.1	
76 2-Hexanone	43	7.779	7.779	0.000	99	829942	40.0	43.8	
78 Chlorodibromomethane	129	7.933	7.933	0.000	91	602932	20.0	22.3	
79 Ethylene Dibromide	107	8.052	8.052	0.000	98	554224	20.0	21.1	
81 Chlorobenzene	112	8.503	8.502	0.001	94	2375375	20.0	20.5	
82 1,1,1,2-Tetrachloroethane	131	8.574	8.574	0.000	92	805119	20.0	22.3	
83 Ethylbenzene	106	8.586	8.585	0.001	99	1319597	20.0	21.9	
84 m-Xylene & p-Xylene	106	8.692	8.692	0.000	100	1629555	20.0	22.5	
85 o-Xylene	106	9.084	9.084	0.000	95	1629876	20.0	22.3	
86 Styrene	104	9.096	9.095	0.001	94	2503863	20.0	20.4	
87 Bromoform	173	9.285	9.285	0.000	96	302741	20.0	19.4	
89 Isopropylbenzene	105	9.428	9.427	0.001	96	4210904	20.0	22.9	
91 1,1,2,2-Tetrachloroethane	83	9.712	9.712	0.000	94	740085	20.0	20.1	
92 Bromobenzene	156	9.748	9.748	0.000	96	954933	20.0	20.9	
93 trans-1,4-Dichloro-2-buten	53	9.771	9.771	0.000	67	181150	20.0	18.5	
94 1,2,3-Trichloropropane	110	9.771	9.771	0.000	85	214901	20.0	19.7	
95 N-Propylbenzene	120	9.819	9.819	0.000	99	1135304	20.0	22.3	
96 2-Chlorotoluene	126	9.926	9.925	0.001	96	977721	20.0	21.4	
97 1,3,5-Trimethylbenzene	105	9.985	9.985	0.000	94	3663926	20.0	22.8	
98 4-Chlorotoluene	126	10.032	10.032	0.000	97	1010845	20.0	21.4	
99 tert-Butylbenzene	119	10.317	10.317	0.000	94	3088447	20.0	22.6	
101 1,2,4-Trimethylbenzene	105	10.364	10.364	0.000	95	3844693	20.0	22.6	
102 sec-Butylbenzene	105	10.530	10.530	0.000	94	4239942	20.0	22.1	
103 1,3-Dichlorobenzene	146	10.661	10.661	0.000	98	1950555	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 4-Isopropyltoluene	119	10.673	10.673	0.000	97	3701537	20.0	20.0	
105 1,4-Dichlorobenzene	146	10.744	10.744	0.000	94	1919803	20.0	20.0	
108 n-Butylbenzene	91	11.076	11.076	0.000	98	3137760	20.0	22.1	
109 1,2-Dichlorobenzene	146	11.123	11.123	0.000	98	1893911	20.0	20.3	
111 1,2-Dibromo-3-Chloropropan	157	11.906	11.906	0.000	79	101171	20.0	19.7	
113 1,2,4-Trichlorobenzene	180	12.724	12.724	0.000	94	1245171	20.0	21.2	
114 Hexachlorobutadiene	225	12.890	12.890	0.000	97	469086	20.0	19.7	
115 Naphthalene	128	12.997	12.997	0.000	100	2435662	20.0	19.8	
116 1,2,3-Trichlorobenzene	180	13.258	13.258	0.000	98	1117397	20.0	20.9	
S 128 1,2-Dichloroethene, Total	96				0		40.0	41.0	
S 129 1,3-Dichloropropene, Total	75				0		40.0	40.1	
S 130 Xylenes, Total	106				0		40.0	44.8	
S 131 Trihalomethanes, Total	1				0		80.0	83.7	

**Reagents:**

VMRGAS_00080	Amount Added: 16.00	Units: uL
VMAROLISTDW_00075	Amount Added: 16.00	Units: uL
VMRPRIMW_00099	Amount Added: 16.00	Units: uL
vm50ss_00179	Amount Added: 16.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7658.D

Injection Date: 28-Nov-2014 10:07:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STD8260 L5

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

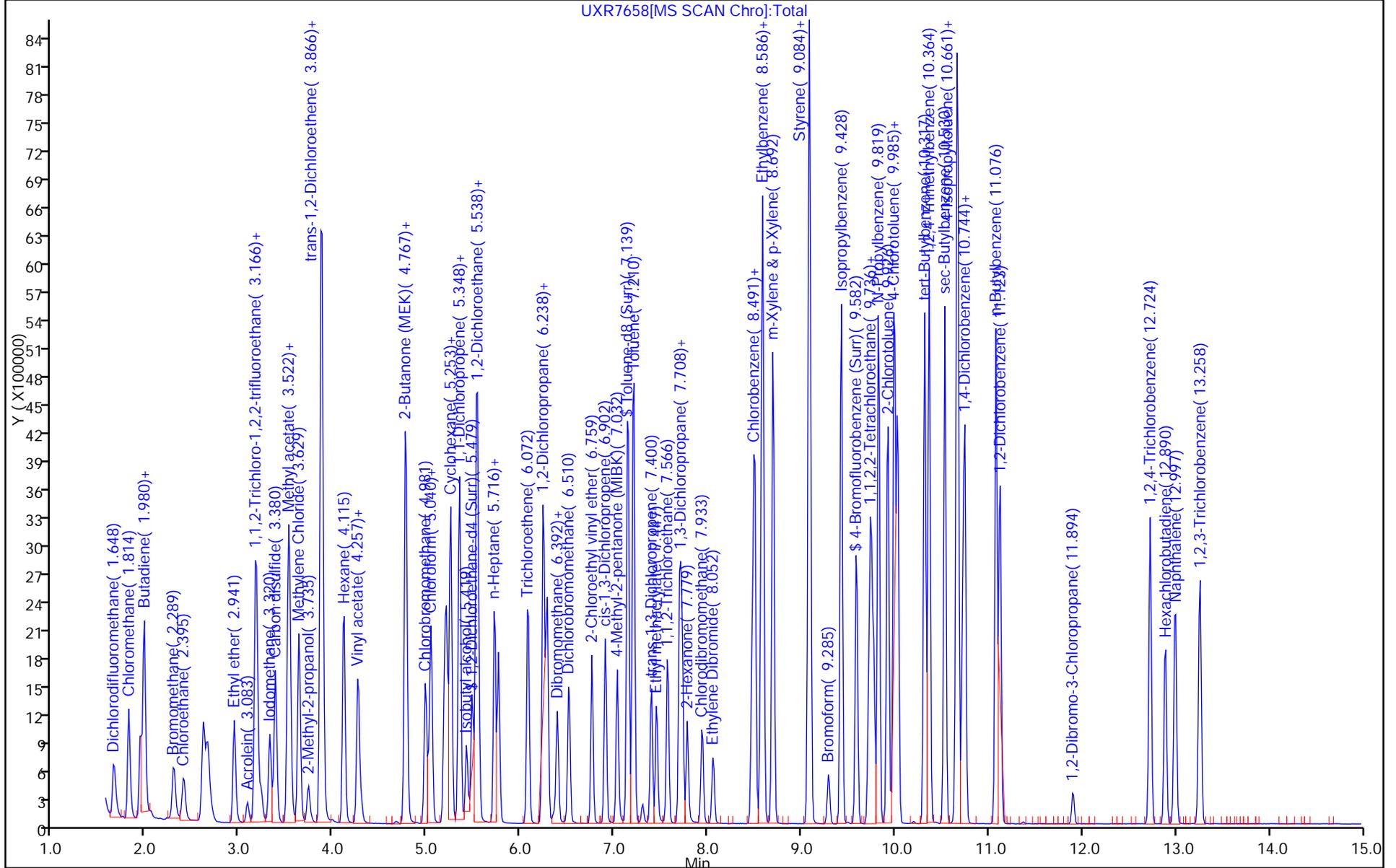
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7659.D  
 Lims ID: STD8260 L4  
 Client ID:  
 Sample Type: ICIS Calib Level: 4  
 Inject. Date: 28-Nov-2014 10:29:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037983-004  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub12  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 28-Nov-2014 14:50:55 Calib Date: 28-Nov-2014 11:36:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: quayler

Date: 28-Nov-2014 10:58:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	99	1673198	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	88	1133123	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	94	606305	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	93	391124	10.0	10.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	490563	10.0	9.74	
\$ 6 Toluene-d8 (Surr)	98	7.139	7.139	0.000	94	1622798	10.0	10.3	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	87	581732	10.0	10.2	
9 Dichlorodifluoromethane	85	1.660	1.660	0.000	99	479526	10.0	10.2	
10 Chloromethane	50	1.814	1.814	0.000	99	764767	10.0	9.49	
11 Vinyl chloride	62	1.933	1.933	0.000	98	580242	10.0	9.86	
119 Butadiene	54	1.980	1.980	0.000	0	580416	10.0	9.72	
12 Bromomethane	94	2.300	2.300	0.000	91	260793	10.0	9.02	
13 Chloroethane	64	2.407	2.407	0.000	100	269787	10.0	8.89	
14 Dichlorofluoromethane	67	2.609	2.609	0.000	96	662164	10.0	9.27	
15 Trichlorofluoromethane	101	2.656	2.656	0.000	97	487774	10.0	9.70	
16 Ethyl ether	59	2.941	2.941	0.000	96	379532	10.0	10.0	
18 Acrolein	56	3.083	3.083	0.000	99	118120	50.0	50.1	
19 1,1-Dichloroethene	96	3.166	3.166	0.000	94	393331	10.0	9.49	
20 1,1,2-Trichloro-1,2,2-trif	151	3.178	3.178	0.000	95	302188	10.0	9.46	
21 Acetone	43	3.225	3.225	0.000	99	263347	20.0	20.8	
22 Iodomethane	142	3.320	3.320	0.000	98	624120	10.0	9.64	
23 Carbon disulfide	76	3.380	3.380	0.000	100	1214610	10.0	9.88	
25 3-Chloro-1-propene	76	3.510	3.510	0.000	90	242075	10.0	10.2	
26 Methyl acetate	43	3.534	3.534	0.000	99	1485083	50.0	50.2	
27 Methylene Chloride	84	3.629	3.629	0.000	98	496470	10.0	9.77	
28 2-Methyl-2-propanol	59	3.735	3.735	0.000	87	185252	100.0	104.5	
29 Acrylonitrile	53	3.866	3.866	0.000	99	1414911	100.0	99.8	
30 Methyl tert-butyl ether	73	3.878	3.878	0.000	97	978480	10.0	9.93	
31 trans-1,2-Dichloroethene	96	3.878	3.878	0.000	98	482956	10.0	10.0	
32 Hexane	86	4.115	4.115	0.000	96	93583	10.0	9.79	
33 1,1-Dichloroethane	63	4.257	4.257	0.000	97	871060	10.0	9.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Vinyl acetate	43	4.293	4.293	0.000	97	181477	9.60	10.5	
39 cis-1,2-Dichloroethene	96	4.767	4.767	0.000	84	499472	10.0	9.79	
38 2,2-Dichloropropane	77	4.767	4.767	0.000	64	456198	10.0	9.79	
40 2-Butanone (MEK)	43	4.779	4.779	0.000	99	320006	20.0	19.8	
44 Chlorobromomethane	128	4.980	4.980	0.000	93	216458	10.0	9.93	
45 Tetrahydrofuran	42	5.016	5.016	0.000	93	198881	20.0	20.1	
46 Chloroform	83	5.040	5.040	0.000	96	778885	10.0	9.77	
47 1,1,1-Trichloroethane	97	5.206	5.206	0.000	97	592205	10.0	9.75	
48 Cyclohexane	56	5.253	5.253	0.000	94	809657	10.0	10.0	
49 1,1-Dichloropropene	75	5.348	5.348	0.000	92	546178	10.0	10.1	
50 Carbon tetrachloride	117	5.348	5.348	0.000	87	490375	10.0	9.92	
51 Isobutyl alcohol	41	5.419	5.419	0.000	91	240508	250.0	256.8	
52 Benzene	78	5.526	5.526	0.000	97	1968557	10.0	9.99	
53 1,2-Dichloroethane	62	5.550	5.550	0.000	97	588456	10.0	9.84	
55 n-Heptane	100	5.728	5.728	0.000	97	81687	10.0	8.91	
57 Trichloroethene	130	6.083	6.083	0.000	98	441261	10.0	9.67	
59 Methylcyclohexane	83	6.237	6.237	0.000	96	609221	10.0	9.73	
60 1,2-Dichloropropane	63	6.285	6.285	0.000	95	475709	10.0	10.0	
63 1,4-Dioxane	88	6.392	6.392	0.000	40	57005	200.0	208.8	
62 Dibromomethane	93	6.392	6.392	0.000	93	209846	10.0	9.68	
64 Dichlorobromomethane	83	6.510	6.510	0.000	98	504512	10.0	10.0	
66 2-Chloroethyl vinyl ether	63	6.759	6.759	0.000	92	362409	20.0	19.0	
67 cis-1,3-Dichloropropene	75	6.902	6.902	0.000	92	536504	10.0	9.31	
68 4-Methyl-2-pentanone (MIBK)	43	7.032	7.032	0.000	99	627295	20.0	21.2	
69 Toluene	91	7.210	7.210	0.000	98	1970328	10.0	10.3	
70 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	96	389620	10.0	9.16	
71 Ethyl methacrylate	69	7.447	7.447	0.000	92	344011	10.0	10.6	
72 1,1,2-Trichloroethane	97	7.566	7.566	0.000	91	324202	10.0	10.2	
73 Tetrachloroethene	164	7.696	7.696	0.000	97	351339	10.0	10.1	
75 1,3-Dichloropropane	76	7.720	7.720	0.000	97	582371	10.0	10.1	
76 2-Hexanone	43	7.779	7.779	0.000	99	442730	20.0	22.3	
78 Chlorodibromomethane	129	7.933	7.933	0.000	90	295510	10.0	10.4	
79 Ethylene Dibromide	107	8.052	8.052	0.000	97	286288	10.0	10.4	
81 Chlorobenzene	112	8.502	8.502	0.000	93	1199865	10.0	9.86	
82 1,1,1,2-Tetrachloroethane	131	8.574	8.574	0.000	92	381447	10.0	10.1	
83 Ethylbenzene	106	8.585	8.585	0.000	99	659597	10.0	10.4	
84 m-Xylene & p-Xylene	106	8.692	8.692	0.000	100	813426	10.0	10.7	
85 o-Xylene	106	9.084	9.084	0.000	95	795528	10.0	10.4	
86 Styrene	104	9.095	9.095	0.000	95	1210446	10.0	9.53	
87 Bromoform	173	9.285	9.285	0.000	95	146432	10.0	9.13	
89 Isopropylbenzene	105	9.427	9.427	0.000	96	2022795	10.0	10.5	
91 1,1,2,2-Tetrachloroethane	83	9.712	9.712	0.000	94	376517	10.0	9.89	
92 Bromobenzene	156	9.748	9.748	0.000	96	477022	10.0	10.1	
93 trans-1,4-Dichloro-2-buten	53	9.771	9.771	0.000	66	93755	10.0	9.39	
94 1,2,3-Trichloropropane	110	9.771	9.771	0.000	84	113610	10.0	10.1	
95 N-Propylbenzene	120	9.819	9.819	0.000	99	561582	10.0	10.7	
96 2-Chlorotoluene	126	9.925	9.925	0.000	96	484238	10.0	10.3	
97 1,3,5-Trimethylbenzene	105	9.985	9.985	0.000	93	1771475	10.0	10.7	
98 4-Chlorotoluene	126	10.032	10.032	0.000	98	510962	10.0	10.5	
99 tert-Butylbenzene	119	10.317	10.317	0.000	94	1478006	10.0	10.4	
101 1,2,4-Trimethylbenzene	105	10.364	10.364	0.000	95	1850755	10.0	10.5	
102 sec-Butylbenzene	105	10.530	10.530	0.000	94	2039736	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.661	10.661	0.000	98	981962	10.0	10.1	
104 4-Isopropyltoluene	119	10.673	10.673	0.000	97	1813943	10.0	9.61	
105 1,4-Dichlorobenzene	146	10.744	10.744	0.000	94	989444	10.0	9.96	
108 n-Butylbenzene	91	11.076	11.076	0.000	98	1514756	10.0	10.3	
109 1,2-Dichlorobenzene	146	11.123	11.123	0.000	97	958198	10.0	9.92	
111 1,2-Dibromo-3-Chloropropan	157	11.906	11.906	0.000	78	46760	10.0	9.00	
113 1,2,4-Trichlorobenzene	180	12.724	12.724	0.000	94	598816	10.0	9.88	
114 Hexachlorobutadiene	225	12.890	12.890	0.000	98	227079	10.0	9.25	
115 Naphthalene	128	12.997	12.997	0.000	99	1140070	10.0	9.18	
116 1,2,3-Trichlorobenzene	180	13.258	13.258	0.000	97	554416	10.0	10.0	
S 128 1,2-Dichloroethene, Total	96				0		20.0	19.8	
S 129 1,3-Dichloropropene, Total	75				0		20.0	18.5	
S 130 Xylenes, Total	106				0		20.0	21.1	
S 131 Trihalomethanes, Total	1				0		40.0	39.3	

**Reagents:**

VMRGAS_00080	Amount Added: 8.00	Units: uL
VMAROLISTDW_00075	Amount Added: 8.00	Units: uL
VMRPRIMW_00099	Amount Added: 8.00	Units: uL
vm50ss_00179	Amount Added: 8.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7659.D

Injection Date: 28-Nov-2014 10:29:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STD8260 L4

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

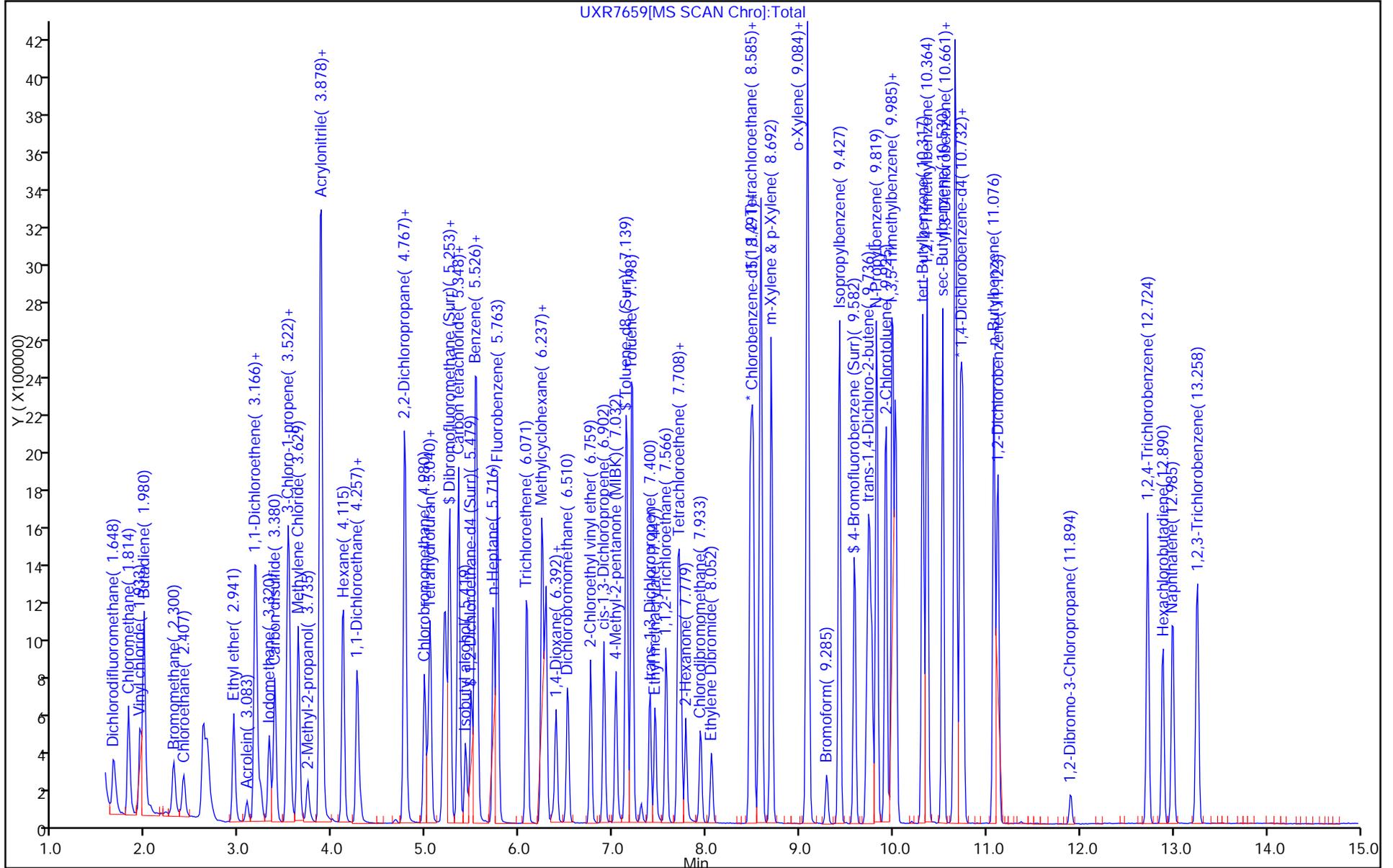
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7660.D  
 Lims ID: STD8260 L3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 28-Nov-2014 10:52:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037983-005  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub12  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 28-Nov-2014 14:50:56 Calib Date: 28-Nov-2014 11:36:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: quayler

Date: 28-Nov-2014 11:53:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	99	1577155	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	88	1078406	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	95	575241	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	93	178194	5.00	4.83	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	236727	5.00	4.99	
\$ 6 Toluene-d8 (Surr)	98	7.139	7.139	0.000	94	737935	5.00	4.94	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	87	271673	5.00	5.03	
9 Dichlorodifluoromethane	85	1.648	1.660	-0.012	99	219109	5.00	4.95	
10 Chloromethane	50	1.814	1.814	0.000	99	371910	5.00	4.89	
11 Vinyl chloride	62	1.933	1.933	0.000	98	279583	5.00	5.04	
119 Butadiene	54	1.980	1.980	0.000	0	276377	5.00	4.91	
12 Bromomethane	94	2.301	2.300	0.001	91	138327	5.00	5.08	
13 Chloroethane	64	2.395	2.407	-0.012	99	144064	5.00	5.04	
14 Dichlorofluoromethane	67	2.609	2.609	0.000	97	348308	5.00	5.17	
15 Trichlorofluoromethane	101	2.656	2.656	0.000	98	242607	5.00	5.12	
16 Ethyl ether	59	2.941	2.941	0.000	96	171170	5.00	4.79	
18 Acrolein	56	3.083	3.083	0.000	99	54803	25.0	24.7	
19 1,1-Dichloroethene	96	3.166	3.166	0.000	95	188592	5.00	4.83	
20 1,1,2-Trichloro-1,2,2-trif	151	3.178	3.178	0.000	91	135255	5.00	4.49	
21 Acetone	43	3.226	3.225	0.001	99	101283	10.0	7.83	
22 Iodomethane	142	3.320	3.320	0.000	98	298057	5.00	4.89	
23 Carbon disulfide	76	3.380	3.380	0.000	100	551671	5.00	4.76	
25 3-Chloro-1-propene	76	3.510	3.510	0.000	90	106169	5.00	4.73	
26 Methyl acetate	43	3.534	3.534	0.000	99	665562	25.0	23.9	
27 Methylene Chloride	84	3.629	3.629	0.000	99	247166	5.00	5.04	
28 2-Methyl-2-propanol	59	3.735	3.735	0.000	83	79958	50.0	47.8	
29 Acrylonitrile	53	3.866	3.866	0.000	99	646278	50.0	48.4	
30 Methyl tert-butyl ether	73	3.878	3.878	0.000	97	447858	5.00	4.82	
31 trans-1,2-Dichloroethene	96	3.878	3.878	0.000	96	227146	5.00	5.00	
32 Hexane	86	4.115	4.115	0.000	96	41313	5.00	4.58	
33 1,1-Dichloroethane	63	4.257	4.257	0.000	96	401283	5.00	4.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Vinyl acetate	43	4.293	4.293	0.000	97	74238	4.80	4.56	
39 cis-1,2-Dichloroethene	96	4.767	4.767	0.000	85	235288	5.00	4.89	
38 2,2-Dichloropropane	77	4.767	4.767	0.000	64	207381	5.00	4.72	
40 2-Butanone (MEK)	43	4.779	4.779	0.000	99	142327	10.0	9.02	
44 Chlorobromomethane	128	4.981	4.980	0.001	92	100183	5.00	4.88	
45 Tetrahydrofuran	42	5.016	5.016	0.000	95	93865	10.0	9.90	
46 Chloroform	83	5.040	5.040	0.000	94	359070	5.00	4.78	
47 1,1,1-Trichloroethane	97	5.206	5.206	0.000	97	280910	5.00	4.90	
48 Cyclohexane	56	5.253	5.253	0.000	94	352030	5.00	4.62	
49 1,1-Dichloropropene	75	5.348	5.348	0.000	92	247983	5.00	4.87	
50 Carbon tetrachloride	117	5.348	5.348	0.000	85	219130	5.00	4.70	
51 Isobutyl alcohol	41	5.419	5.419	0.000	91	103000	125.0	115.6	
52 Benzene	78	5.526	5.526	0.000	97	884508	5.00	4.76	
53 1,2-Dichloroethane	62	5.550	5.550	0.000	96	271016	5.00	4.81	
55 n-Heptane	100	5.728	5.728	0.000	95	37047	5.00	4.46	
57 Trichloroethene	130	6.083	6.083	0.000	98	205197	5.00	4.77	
59 Methylcyclohexane	83	6.238	6.237	0.001	94	269193	5.00	4.56	
60 1,2-Dichloropropane	63	6.285	6.285	0.000	96	217778	5.00	4.87	
63 1,4-Dioxane	88	6.392	6.392	0.000	41	26341	100.0	102.4	
62 Dibromomethane	93	6.392	6.392	0.000	93	99651	5.00	4.87	
64 Dichlorobromomethane	83	6.510	6.510	0.000	98	225155	5.00	4.74	
66 2-Chloroethyl vinyl ether	63	6.759	6.759	0.000	92	146394	10.0	8.47	
67 cis-1,3-Dichloropropene	75	6.902	6.902	0.000	92	228578	5.00	4.37	
68 4-Methyl-2-pentanone (MIBK)	43	7.032	7.032	0.000	99	256145	10.0	9.16	
69 Toluene	91	7.210	7.210	0.000	97	884286	5.00	4.87	
70 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	97	156522	5.00	4.07	
71 Ethyl methacrylate	69	7.447	7.447	0.000	93	141863	5.00	4.59	
72 1,1,2-Trichloroethane	97	7.566	7.566	0.000	92	146276	5.00	4.82	
73 Tetrachloroethene	164	7.696	7.696	0.000	97	160583	5.00	4.85	
75 1,3-Dichloropropane	76	7.720	7.720	0.000	98	265440	5.00	4.84	
76 2-Hexanone	43	7.779	7.779	0.000	97	172678	10.0	9.12	
78 Chlorodibromomethane	129	7.933	7.933	0.000	90	122656	5.00	4.54	
79 Ethylene Dibromide	107	8.052	8.052	0.000	98	128373	5.00	4.89	
81 Chlorobenzene	112	8.503	8.502	0.001	93	559245	5.00	4.83	
82 1,1,1,2-Tetrachloroethane	131	8.574	8.574	0.000	91	172329	5.00	4.79	
83 Ethylbenzene	106	8.586	8.585	0.001	99	280765	5.00	4.67	
84 m-Xylene & p-Xylene	106	8.692	8.692	0.000	99	352326	5.00	4.88	
85 o-Xylene	106	9.084	9.084	0.000	97	365079	5.00	5.00	
86 Styrene	104	9.096	9.095	0.001	95	532070	5.00	4.55	
87 Bromoform	173	9.285	9.285	0.000	95	61670	5.00	4.23	
89 Isopropylbenzene	105	9.428	9.427	0.001	96	890372	5.00	4.86	
91 1,1,2,2-Tetrachloroethane	83	9.712	9.712	0.000	95	168134	5.00	4.66	
92 Bromobenzene	156	9.748	9.748	0.000	96	221592	5.00	4.96	
93 trans-1,4-Dichloro-2-buten	53	9.771	9.771	0.000	66	41571	5.00	4.54	
94 1,2,3-Trichloropropane	110	9.771	9.771	0.000	84	52481	5.00	4.90	
95 N-Propylbenzene	120	9.819	9.819	0.000	99	238737	5.00	4.78	
96 2-Chlorotoluene	126	9.926	9.925	0.001	96	222261	5.00	4.96	
97 1,3,5-Trimethylbenzene	105	9.997	9.985	0.012	93	776843	5.00	4.93	
98 4-Chlorotoluene	126	10.032	10.032	0.000	97	234559	5.00	5.06	
99 tert-Butylbenzene	119	10.317	10.317	0.000	94	644254	5.00	4.80	
101 1,2,4-Trimethylbenzene	105	10.364	10.364	0.000	95	834240	5.00	5.01	
102 sec-Butylbenzene	105	10.530	10.530	0.000	95	901838	5.00	4.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.661	10.661	0.000	98	451510	5.00	4.90	
104 4-Isopropyltoluene	119	10.673	10.673	0.000	98	791678	5.00	4.57	
105 1,4-Dichlorobenzene	146	10.744	10.744	0.000	94	456733	5.00	4.85	
108 n-Butylbenzene	91	11.076	11.076	0.000	98	645928	5.00	4.65	
109 1,2-Dichlorobenzene	146	11.123	11.123	0.000	97	447586	5.00	4.88	
111 1,2-Dibromo-3-Chloropropan	157	11.906	11.906	0.000	77	19795	5.00	4.20	
113 1,2,4-Trichlorobenzene	180	12.724	12.724	0.000	94	272208	5.00	4.73	
114 Hexachlorobutadiene	225	12.890	12.890	0.000	94	116139	5.00	4.99	
115 Naphthalene	128	12.997	12.997	0.000	100	465491	5.00	4.16	
116 1,2,3-Trichlorobenzene	180	13.258	13.258	0.000	98	254415	5.00	4.85	
S 128 1,2-Dichloroethene, Total	96				0		10.0	9.89	
S 129 1,3-Dichloropropene, Total	75				0		10.0	8.44	
S 130 Xylenes, Total	106				0		10.0	9.88	
S 131 Trihalomethanes, Total	1				0		20.0	18.3	

**Reagents:**

VMRGAS_00080	Amount Added: 4.00	Units: uL
VMAROLISTDW_00075	Amount Added: 4.00	Units: uL
VMRPRIMW_00099	Amount Added: 4.00	Units: uL
vm50ss_00179	Amount Added: 4.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7660.D

Injection Date: 28-Nov-2014 10:52:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STD8260 L3

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

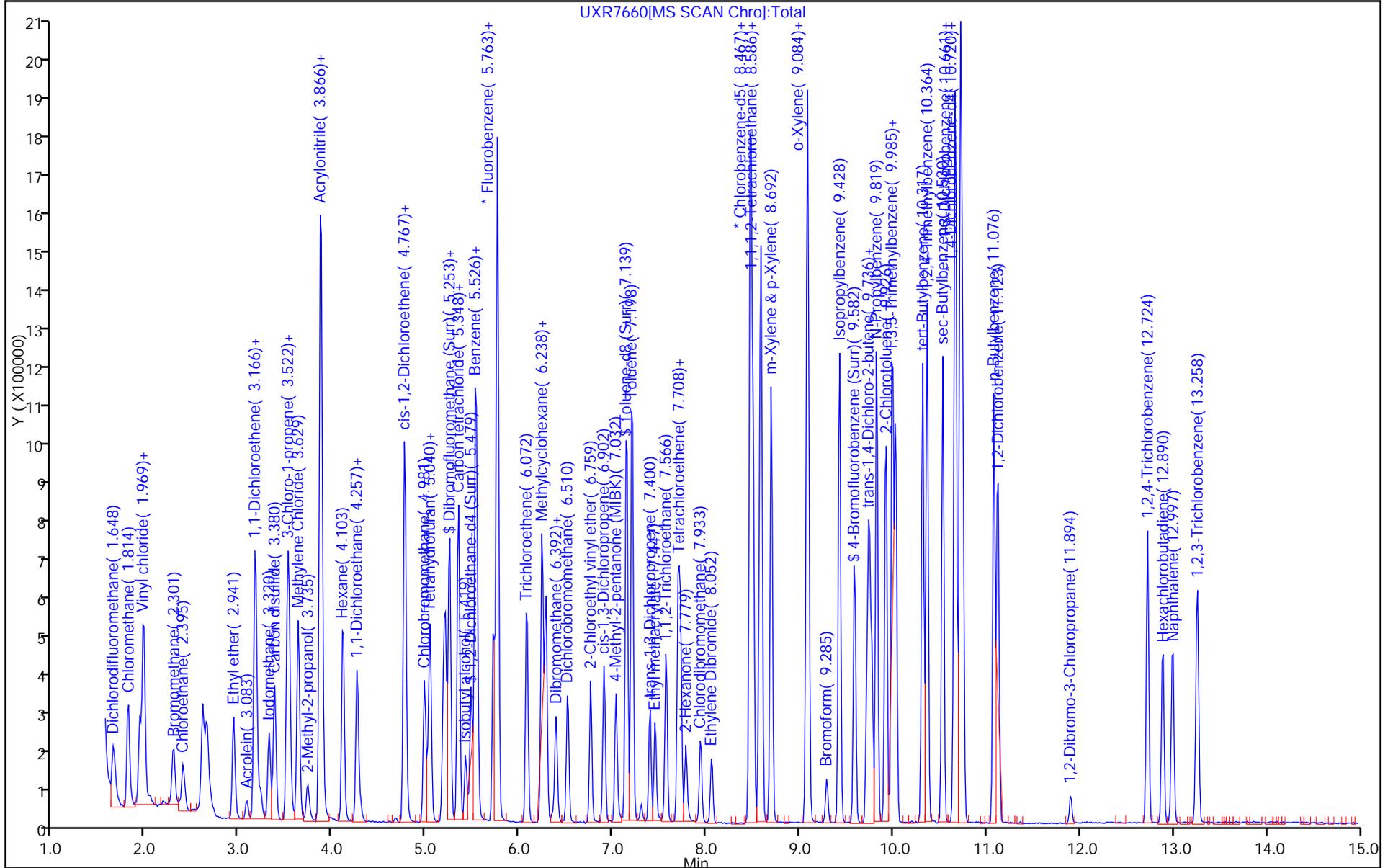
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7661.D  
 Lims ID: STD8260 L2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 28-Nov-2014 11:14:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037983-006  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub12  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 28-Nov-2014 14:50:57 Calib Date: 28-Nov-2014 11:36:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: quayler

Date: 28-Nov-2014 11:52:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	99	1520604	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	87	1047200	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	558996	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	93	67888	2.00	1.91	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	95900	2.00	2.10	
\$ 6 Toluene-d8 (Surr)	98	7.139	7.139	0.000	94	275512	2.00	1.90	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	88	94981	2.00	1.81	
9 Dichlorodifluoromethane	85	1.648	1.660	-0.012	98	77514	2.00	1.82	
10 Chloromethane	50	1.814	1.814	0.000	99	141785	2.00	1.94	
11 Vinyl chloride	62	1.933	1.933	0.000	97	104557	2.00	1.96	
119 Butadiene	54	1.980	1.980	0.000	0	105772	2.00	1.95	
12 Bromomethane	94	2.289	2.300	-0.011	91	55504	2.00	2.11	
13 Chloroethane	64	2.395	2.407	-0.012	99	56783	2.00	2.06	
14 Dichlorofluoromethane	67	2.609	2.609	0.000	97	131393	2.00	2.02	
15 Trichlorofluoromethane	101	2.656	2.656	0.000	98	91400	2.00	2.00	
16 Ethyl ether	59	2.941	2.941	0.000	97	62934	2.00	1.83	
18 Acrolein	56	3.083	3.083	0.000	99	21477	10.0	10.0	
19 1,1-Dichloroethene	96	3.166	3.166	0.000	96	74376	2.00	1.98	
20 1,1,2-Trichloro-1,2,2-trif	151	3.178	3.178	0.000	93	59138	2.00	2.04	
21 Acetone	43	3.226	3.225	0.001	99	54318	4.00	3.85	
22 Iodomethane	142	3.320	3.320	0.000	97	117060	2.00	1.99	
23 Carbon disulfide	76	3.380	3.380	0.000	100	209221	2.00	1.87	
25 3-Chloro-1-propene	76	3.510	3.510	0.000	89	39876	2.00	1.84	
26 Methyl acetate	43	3.534	3.534	0.000	99	239454	10.0	8.91	
27 Methylene Chloride	84	3.629	3.629	0.000	98	104130	2.00	2.06	
28 2-Methyl-2-propanol	59	3.735	3.735	0.000	84	30324	20.0	18.8	
29 Acrylonitrile	53	3.866	3.866	0.000	99	239279	20.0	18.6	
30 Methyl tert-butyl ether	73	3.878	3.878	0.000	94	171958	2.00	1.92	
31 trans-1,2-Dichloroethene	96	3.878	3.878	0.000	93	83474	2.00	1.90	
32 Hexane	86	4.115	4.115	0.000	94	15615	2.00	1.80	
33 1,1-Dichloroethane	63	4.257	4.257	0.000	96	159395	2.00	2.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Vinyl acetate	43	4.293	4.293	0.000	97	27861	1.92	1.78	
39 cis-1,2-Dichloroethene	96	4.767	4.767	0.000	85	91897	2.00	1.98	
38 2,2-Dichloropropane	77	4.767	4.767	0.000	64	79104	2.00	1.87	
40 2-Butanone (MEK)	43	4.779	4.779	0.000	47	58763	4.00	3.48	
44 Chlorobromomethane	128	4.981	4.980	0.001	92	41969	2.00	2.12	
45 Tetrahydrofuran	42	5.016	5.016	0.000	96	34089	4.00	3.52	
46 Chloroform	83	5.040	5.040	0.000	95	144454	2.00	1.99	
47 1,1,1-Trichloroethane	97	5.206	5.206	0.000	98	107945	2.00	1.95	
48 Cyclohexane	56	5.253	5.253	0.000	94	135524	2.00	1.85	
49 1,1-Dichloropropene	75	5.348	5.348	0.000	90	92567	2.00	1.89	
50 Carbon tetrachloride	117	5.348	5.348	0.000	90	83459	2.00	1.86	
51 Isobutyl alcohol	41	5.419	5.419	0.000	92	41956	50.0	48.5	
52 Benzene	78	5.526	5.526	0.000	97	358706	2.00	2.00	
53 1,2-Dichloroethane	62	5.550	5.550	0.000	97	108497	2.00	2.00	
55 n-Heptane	100	5.728	5.728	0.000	93	13679	2.00	1.91	
57 Trichloroethene	130	6.083	6.083	0.000	97	80811	2.00	1.95	
59 Methylcyclohexane	83	6.238	6.237	0.001	96	103680	2.00	1.82	
60 1,2-Dichloropropane	63	6.285	6.285	0.000	96	87331	2.00	2.03	
63 1,4-Dioxane	88	6.392	6.392	0.000	41	9860	40.0	39.7	
62 Dibromomethane	93	6.392	6.392	0.000	93	38664	2.00	1.96	
64 Dichlorobromomethane	83	6.510	6.510	0.000	98	86551	2.00	1.89	
66 2-Chloroethyl vinyl ether	63	6.759	6.759	0.000	91	49303	4.00	3.34	
67 cis-1,3-Dichloropropene	75	6.902	6.902	0.000	90	81442	2.00	1.80	
68 4-Methyl-2-pentanone (MIBK)	43	7.032	7.032	0.000	99	91912	4.00	3.41	
69 Toluene	91	7.210	7.210	0.000	98	336656	2.00	1.91	
70 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	97	55913	2.00	1.72	
71 Ethyl methacrylate	69	7.447	7.447	0.000	93	50982	2.00	1.70	
72 1,1,2-Trichloroethane	97	7.566	7.566	0.000	94	54219	2.00	1.84	
73 Tetrachloroethene	164	7.696	7.696	0.000	96	63230	2.00	1.97	
75 1,3-Dichloropropane	76	7.720	7.720	0.000	95	104903	2.00	1.97	
76 2-Hexanone	43	7.779	7.779	0.000	98	61676	4.00	3.35	
78 Chlorodibromomethane	129	7.933	7.933	0.000	89	44516	2.00	1.70	
79 Ethylene Dibromide	107	8.052	8.052	0.000	100	47265	2.00	1.86	
81 Chlorobenzene	112	8.503	8.502	0.001	93	215847	2.00	1.92	
82 1,1,1,2-Tetrachloroethane	131	8.574	8.574	0.000	90	65790	2.00	1.88	
83 Ethylbenzene	106	8.586	8.585	0.001	99	106865	2.00	1.83	
84 m-Xylene & p-Xylene	106	8.692	8.692	0.000	98	123906	2.00	1.77	
85 o-Xylene	106	9.084	9.084	0.000	97	132154	2.00	1.86	
86 Styrene	104	9.096	9.095	0.001	94	180885	2.00	1.77	
87 Bromoform	173	9.285	9.285	0.000	93	21161	2.00	1.71	
89 Isopropylbenzene	105	9.428	9.427	0.001	96	316396	2.00	1.78	
91 1,1,2,2-Tetrachloroethane	83	9.724	9.712	0.012	95	69516	2.00	1.98	
92 Bromobenzene	156	9.748	9.748	0.000	97	82194	2.00	1.89	
93 trans-1,4-Dichloro-2-buten	53	9.771	9.771	0.000	64	13088	2.00	1.67	
94 1,2,3-Trichloropropane	110	9.771	9.771	0.000	84	18337	2.00	1.76	
95 N-Propylbenzene	120	9.819	9.819	0.000	99	86516	2.00	1.78	
96 2-Chlorotoluene	126	9.926	9.925	0.001	96	82345	2.00	1.89	
97 1,3,5-Trimethylbenzene	105	9.985	9.985	0.000	94	271613	2.00	1.77	
98 4-Chlorotoluene	126	10.032	10.032	0.000	98	85476	2.00	1.90	
99 tert-Butylbenzene	119	10.317	10.317	0.000	94	236693	2.00	1.81	
101 1,2,4-Trimethylbenzene	105	10.364	10.364	0.000	95	302910	2.00	1.87	
102 sec-Butylbenzene	105	10.530	10.530	0.000	94	344646	2.00	1.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.661	10.661	0.000	97	176163	2.00	1.97	
104 4-Isopropyltoluene	119	10.673	10.673	0.000	97	280029	2.00	1.83	
105 1,4-Dichlorobenzene	146	10.744	10.744	0.000	96	184755	2.00	2.02	
108 n-Butylbenzene	91	11.076	11.076	0.000	97	246335	2.00	1.82	
109 1,2-Dichlorobenzene	146	11.123	11.123	0.000	97	170077	2.00	1.91	
111 1,2-Dibromo-3-Chloropropan	157	11.906	11.906	0.000	75	7335	2.00	1.81	
113 1,2,4-Trichlorobenzene	180	12.724	12.724	0.000	94	102188	2.00	1.83	
114 Hexachlorobutadiene	225	12.890	12.890	0.000	97	43090	2.00	1.90	
115 Naphthalene	128	12.997	12.997	0.000	99	153769	2.00	1.65	
116 1,2,3-Trichlorobenzene	180	13.258	13.258	0.000	97	95917	2.00	1.88	
S 128 1,2-Dichloroethene, Total	96				0		4.00	3.89	
S 129 1,3-Dichloropropene, Total	75				0		4.00	3.52	
S 130 Xylenes, Total	106				0		4.00	3.63	
S 131 Trihalomethanes, Total	1				0		8.00	7.30	

**Reagents:**

VMRGAS_00080	Amount Added: 1.60	Units: uL
VMAROLISTDW_00075	Amount Added: 1.60	Units: uL
VMRPRIMW_00099	Amount Added: 1.60	Units: uL
vm50ss_00179	Amount Added: 1.60	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7661.D

Injection Date: 28-Nov-2014 11:14:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STD8260 L2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

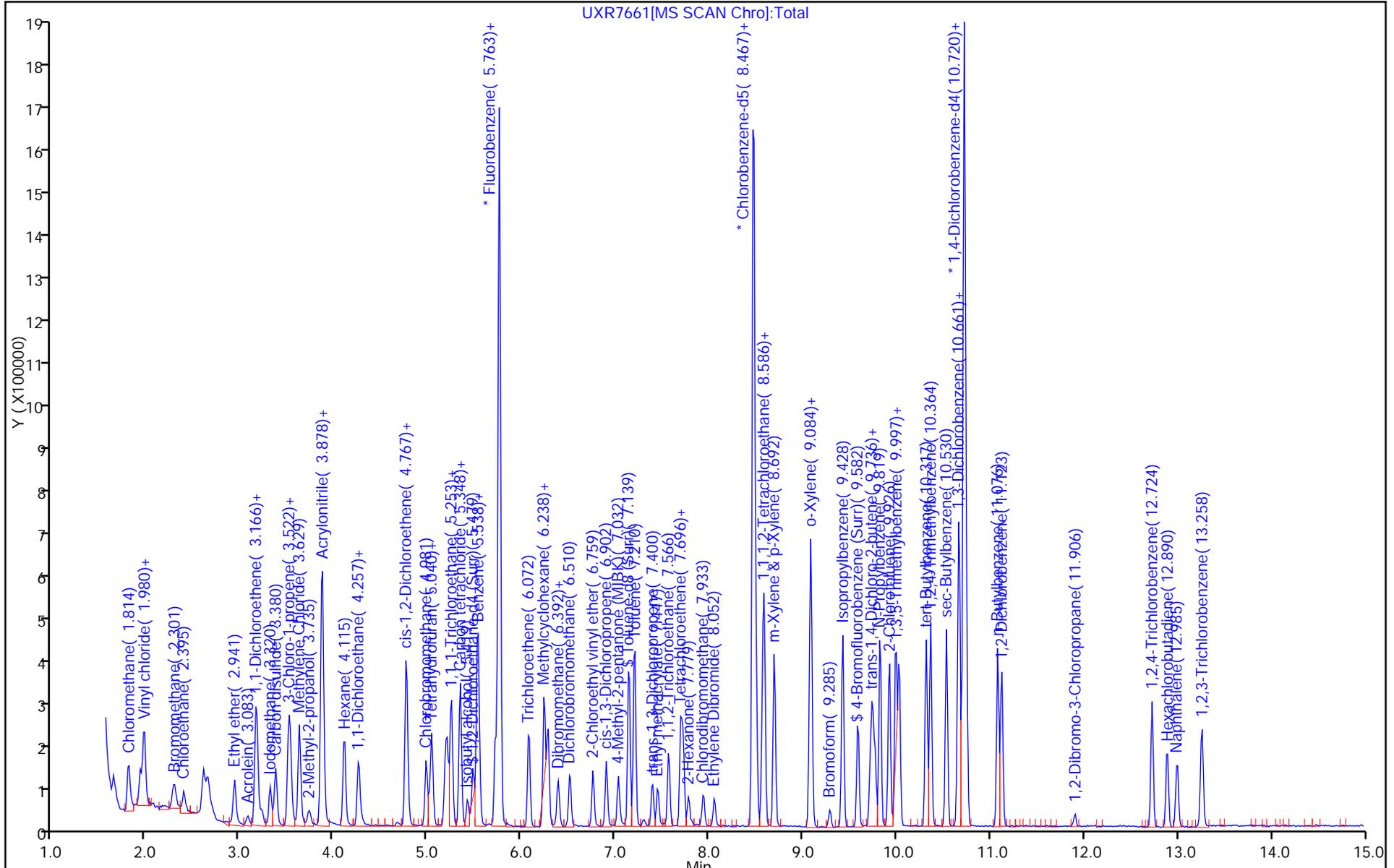
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D  
 Lims ID: STD8260 L1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 28-Nov-2014 11:36:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037983-007  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub12

Method: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 28-Nov-2014 14:50:58 Calib Date: 28-Nov-2014 11:36:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D

Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK028

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	99	1529639	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	87	1089707	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	565364	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	90	18127	0.5000	0.5070	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	23626	0.5000	0.5133	
\$ 6 Toluene-d8 (Surr)	98	7.151	7.139	0.012	94	66492	0.5000	0.4403	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	89	25053	0.5000	0.4589	
9 Dichlorodifluoromethane	85	1.648	1.660	-0.012	97	20592	0.5000	0.4793	
10 Chloromethane	50	1.814	1.814	0.000	99	42178	0.5000	0.5723	
11 Vinyl chloride	62	1.933	1.933	0.000	96	27142	0.5000	0.5047	
119 Butadiene	54	1.980	1.980	0.000	0	28616	0.5000	0.5242	
12 Bromomethane	94	2.301	2.300	0.001	85	15733	0.5000	0.5955	
13 Chloroethane	64	2.407	2.407	0.000	97	15662	0.5000	0.5648	
14 Dichlorofluoromethane	67	2.609	2.609	0.000	97	33487	0.5000	0.5126	
15 Trichlorofluoromethane	101	2.656	2.656	0.000	96	21139	0.5000	0.4600	
16 Ethyl ether	59	2.941	2.941	0.000	96	19449	0.5000	0.5613	
18 Acrolein	56	3.083	3.083	0.000	57	4695	2.50	2.18	
19 1,1-Dichloroethene	96	3.166	3.166	0.000	96	21133	0.5000	0.5580	
20 1,1,2-Trichloro-1,2,2-trif	151	3.178	3.178	0.000	91	15744	0.5000	0.5393	
21 Acetone	43	3.226	3.225	0.001	97	25894	1.00	1.22	
22 Iodomethane	142	3.320	3.320	0.000	96	30712	0.5000	0.5191	
23 Carbon disulfide	76	3.380	3.380	0.000	100	50360	0.5000	0.4481	
25 3-Chloro-1-propene	76	3.522	3.510	0.012	90	9975	0.5000	0.4584	
26 Methyl acetate	43	3.534	3.534	0.000	99	75277	2.50	2.78	
27 Methylene Chloride	84	3.629	3.629	0.000	99	33137	0.5000	0.4796	
28 2-Methyl-2-propanol	59	3.736	3.735	0.001	86	8481	5.00	5.23	
29 Acrylonitrile	53	3.866	3.866	0.000	99	68524	5.00	5.29	
30 Methyl tert-butyl ether	73	3.878	3.878	0.000	83	44655	0.5000	0.4958	
31 trans-1,2-Dichloroethene	96	3.878	3.878	0.000	77	22579	0.5000	0.5120	
32 Hexane	86	4.103	4.115	-0.012	95	4378	0.5000	0.5008	
33 1,1-Dichloroethane	63	4.257	4.257	0.000	95	40362	0.5000	0.5059	
34 Vinyl acetate	43	4.305	4.293	0.012	35	6132	0.4800	0.3884	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.767	4.767	0.000	85	23959	0.5000	0.5138	
38 2,2-Dichloropropane	77	4.767	4.767	0.000	63	20361	0.5000	0.4778	
40 2-Butanone (MEK)	43	4.779	4.779	0.000	69	27019	1.00	1.23	
44 Chlorobromomethane	128	4.981	4.980	0.001	91	9531	0.5000	0.4783	
45 Tetrahydrofuran	42	5.016	5.016	0.000	84	12939	1.00	1.12	
46 Chloroform	83	5.040	5.040	0.000	94	38329	0.5000	0.5260	
47 1,1,1-Trichloroethane	97	5.206	5.206	0.000	95	26644	0.5000	0.4796	
48 Cyclohexane	56	5.253	5.253	0.000	94	33648	0.5000	0.4557	
49 1,1-Dichloropropene	75	5.348	5.348	0.000	89	23651	0.5000	0.4791	
50 Carbon tetrachloride	117	5.348	5.348	0.000	87	22101	0.5000	0.4888	
51 Isobutyl alcohol	41	5.419	5.419	0.000	82	11991	12.5	13.3	
52 Benzene	78	5.526	5.526	0.000	96	92839	0.5000	0.5153	
53 1,2-Dichloroethane	62	5.550	5.550	0.000	95	30278	0.5000	0.5540	
55 n-Heptane	100	5.728	5.728	0.000	41	2446	0.5000	0.6161	
57 Trichloroethene	130	6.084	6.083	0.001	94	23474	0.5000	0.5624	
59 Methylcyclohexane	83	6.238	6.237	0.001	89	28238	0.5000	0.4931	
60 1,2-Dichloropropane	63	6.285	6.285	0.000	94	21524	0.5000	0.4962	
63 1,4-Dioxane	88	6.392	6.392	0.000	43	2599	10.0	10.4	
62 Dibromomethane	93	6.392	6.392	0.000	95	10457	0.5000	0.5274	
64 Dichlorobromomethane	83	6.510	6.510	0.000	94	21098	0.5000	0.4584	
66 2-Chloroethyl vinyl ether	63	6.759	6.759	0.000	88	13788	1.00	1.35	
67 cis-1,3-Dichloropropene	75	6.902	6.902	0.000	85	18369	0.5000	0.6299	
68 4-Methyl-2-pentanone (MIBK)	43	7.032	7.032	0.000	98	25986	1.00	0.9585	
69 Toluene	91	7.210	7.210	0.000	97	84175	0.5000	0.4592	
70 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	93	13827	0.5000	0.6799	
71 Ethyl methacrylate	69	7.447	7.447	0.000	89	13874	0.5000	0.4447	
72 1,1,2-Trichloroethane	97	7.566	7.566	0.000	89	16568	0.5000	0.5404	
73 Tetrachloroethene	164	7.696	7.696	0.000	97	17323	0.5000	0.5181	
75 1,3-Dichloropropane	76	7.720	7.720	0.000	94	28274	0.5000	0.5106	
76 2-Hexanone	43	7.779	7.779	0.000	98	16838	1.00	0.8800	
78 Chlorodibromomethane	129	7.933	7.933	0.000	89	12364	0.5000	0.4531	
79 Ethylene Dibromide	107	8.052	8.052	0.000	98	12274	0.5000	0.4631	
81 Chlorobenzene	112	8.503	8.502	0.001	94	62148	0.5000	0.5308	
82 1,1,1,2-Tetrachloroethane	131	8.574	8.574	0.000	86	16182	0.5000	0.4447	
83 Ethylbenzene	106	8.586	8.585	0.001	99	28175	0.5000	0.4635	
84 m-Xylene & p-Xylene	106	8.692	8.692	0.000	99	30082	0.5000	0.4123	
85 o-Xylene	106	9.084	9.084	0.000	97	30162	0.5000	0.4087	
86 Styrene	104	9.096	9.095	0.001	92	42509	0.5000	0.6095	
87 Bromoform	173	9.285	9.285	0.000	93	5420	0.5000	0.6779	
89 Isopropylbenzene	105	9.428	9.427	0.001	96	74656	0.5000	0.4031	
91 1,1,2,2-Tetrachloroethane	83	9.724	9.712	0.012	95	18788	0.5000	0.5295	
92 Bromobenzene	156	9.748	9.748	0.000	96	20276	0.5000	0.4616	
93 trans-1,4-Dichloro-2-buten	53	9.772	9.771	0.001	64	3568	0.5000	0.6629	
94 1,2,3-Trichloropropane	110	9.772	9.771	0.001	84	5797	0.5000	0.5512	
95 N-Propylbenzene	120	9.819	9.819	0.000	99	20396	0.5000	0.4156	
96 2-Chlorotoluene	126	9.926	9.925	0.001	95	19750	0.5000	0.4487	
97 1,3,5-Trimethylbenzene	105	9.985	9.985	0.000	92	60405	0.5000	0.3899	
98 4-Chlorotoluene	126	10.032	10.032	0.000	97	19684	0.5000	0.4320	
99 tert-Butylbenzene	119	10.317	10.317	0.000	95	53850	0.5000	0.4082	
101 1,2,4-Trimethylbenzene	105	10.364	10.364	0.000	94	59860	0.5000	0.3657	
102 sec-Butylbenzene	105	10.530	10.530	0.000	95	76020	0.5000	0.4120	
103 1,3-Dichlorobenzene	146	10.661	10.661	0.000	94	42575	0.5000	0.4700	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 4-Isopropyltoluene	119	10.673	10.673	0.000	97	59231	0.5000	0.5942	
105 1,4-Dichlorobenzene	146	10.744	10.744	0.000	91	46562	0.5000	0.5028	
108 n-Butylbenzene	91	11.076	11.076	0.000	97	58870	0.5000	0.4309	
109 1,2-Dichlorobenzene	146	11.123	11.123	0.000	97	47444	0.5000	0.5266	
111 1,2-Dibromo-3-Chloropropan	157	11.894	11.906	-0.012	66	1636	0.5000	0.6582	
113 1,2,4-Trichlorobenzene	180	12.724	12.724	0.000	91	29347	0.5000	0.5190	
114 Hexachlorobutadiene	225	12.890	12.890	0.000	94	14014	0.5000	0.6122	
115 Naphthalene	128	12.985	12.997	-0.012	99	39390	0.5000	0.6912	
116 1,2,3-Trichlorobenzene	180	13.258	13.258	0.000	94	26678	0.5000	0.5170	
S 128 1,2-Dichloroethene, Total	96				0		1.00	1.03	
S 129 1,3-Dichloropropene, Total	75				0		1.00	1.31	
S 130 Xylenes, Total	106				0		1.00	0.8210	
S 131 Trihalomethanes, Total	1				0		2.00	2.12	

**Reagents:**

VMRGAS_00080	Amount Added: 0.40	Units: uL
VMAROLISTDW_00075	Amount Added: 0.40	Units: uL
VMRPRIMW_00099	Amount Added: 0.40	Units: uL
vm50ss_00179	Amount Added: 0.40	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D

Injection Date: 28-Nov-2014 11:36:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STD8260 L1

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

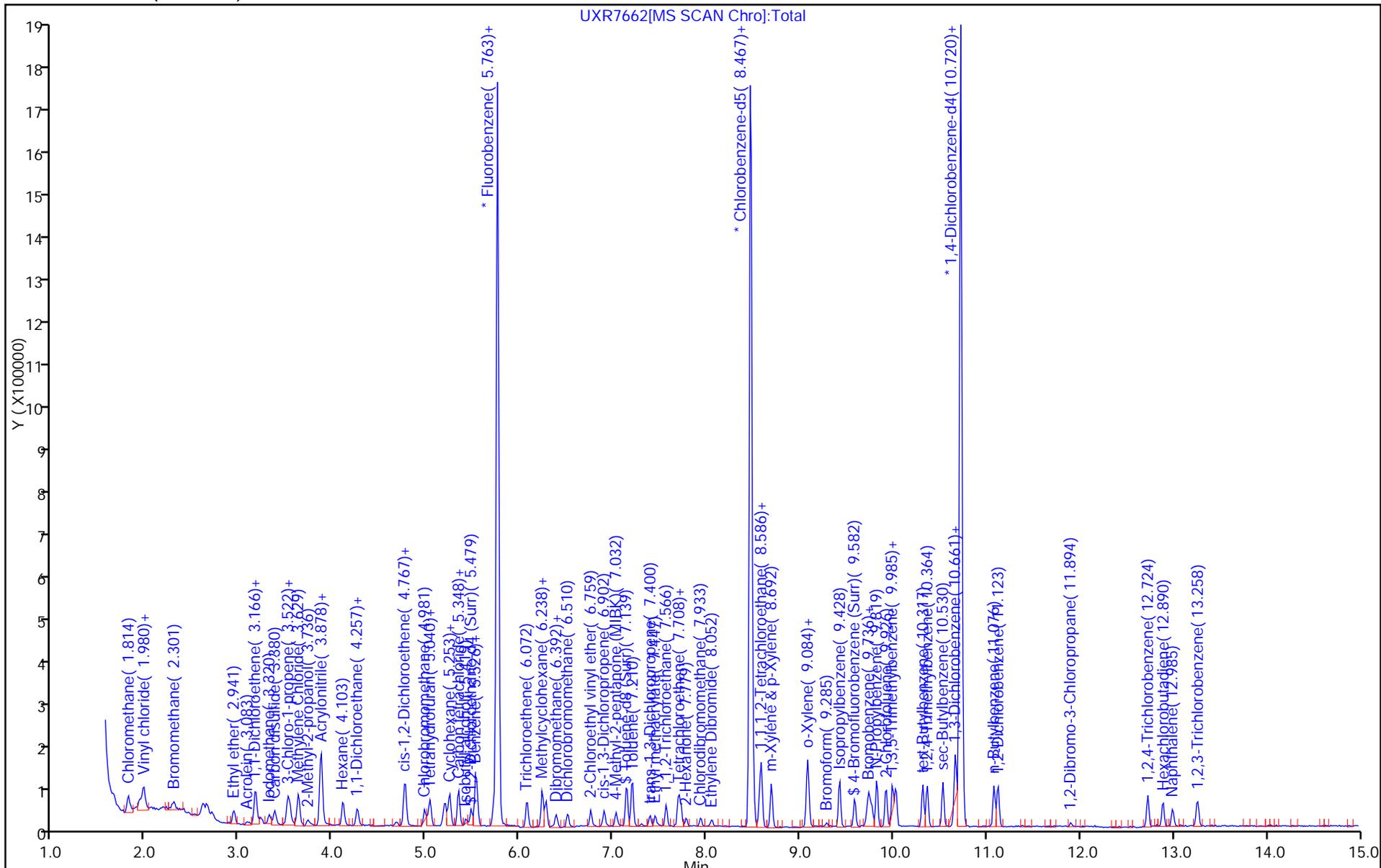
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158831

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 18:03 Calibration End Date: 11/28/2014 19:56 Calibration ID: 25581

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-158831/7	UXR7680.D
Level 2	STDA9 240-158831/6	UXR7679.D
Level 3	STDA9 240-158831/5	UXR7678.D
Level 4	STDA9 240-158831/4	UXR7677.D
Level 5	STDA9 240-158831/3	UXR7676.D
Level 6	STDA9 240-158831/2	UXR7675.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0366 0.0322	0.0342	0.0325	0.0306	0.0329	Ave		0.0332			6.2		15.0				
Isopropyl ether	0.2018 0.2409	0.2001	0.2093	0.2096	0.2308	Ave		0.2154			7.7		15.0				
Chloroprene	0.4337 0.5445	0.4245	0.4443	0.4772	0.4994	Ave		0.4706			9.7		15.0				
Tert-butyl ethyl ether	0.6507 0.8018	0.6596	0.6612	0.7066	0.7539	Ave		0.7056			8.7		15.0				
Ethyl acetate	0.0604 0.0539	0.0657	0.0539	0.0522	0.0546	Ave		0.0568			9.1		15.0				
Propionitrile	0.0294 0.0285	0.0267	0.0264	0.0269	0.0287	Ave		0.0278			4.6		15.0				
Methacrylonitrile	0.1430 0.1522	0.1352	0.1379	0.1435	0.1556	Ave		0.1446			5.5		15.0				
Tert-amyl methyl ether	0.4839 0.5719	0.4596	0.4781	0.5068	0.5560	Ave		0.5094			8.9		15.0				
n-Butanol	0.0035 0.0044	0.0041	0.0040	0.0041	0.0050	Ave		0.0042			12.0		15.0				
Ethyl acrylate	0.1665 0.2151	0.1751	0.1803	0.1882	0.2270	Ave		0.1921			12.0		15.0				
Methyl methacrylate	0.1586 0.2015	0.1572	0.1621	0.1715	0.1982	Ave		0.1749			11.0		15.0				
2-Nitropropane	0.0279 0.0382	0.0292	0.0244	0.0272	0.0335	Qua	-0.017	0.0274	0.0001378					0.9990		0.9900	
1-Chlorohexane	0.3033 0.3992	0.3084	0.3058	0.3367	0.3835	Ave		0.3395			12.0		15.0				
Cyclohexanone	0.0105 0.0114	0.0087	0.0104	0.0104	0.0137	Ave		0.0108			15.0		15.0				
Pentachloroethane	0.1897 0.2470	0.1813	0.1940	0.2068	0.2237	Ave		0.2071			12.0		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158831  
 SDG No.: \_\_\_\_\_  
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 11/28/2014 18:03 Calibration End Date: 11/28/2014 19:56 Calibration ID: 25581

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trimethylbenzene	2.6054 3.9753	2.5890	2.9267	3.2411	3.7014	Lin1	-2.197	3.8596						0.9940		0.9900	
Benzyl chloride	0.0807 0.1406	0.0609	0.0727	0.0854	0.1157	Qua	-0.067	0.0875	0.0013787					0.9990		0.9900	
1,3,5-Trichlorobenzene	1.3068 1.3829	1.2330	1.2740	1.2668	1.3377	Ave		1.3002			4.2		15.0				
2-Methylnaphthalene	0.5574 1.3081	0.6174	0.7519	0.9264	1.2858	Qua	-3.235	1.2287	0.0015773					0.9970		0.9900	
n-Butyl acetate	0.0549 0.0546	0.0470	0.0471	0.0473	0.0560	Ave		0.0512			8.6		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158831

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 18:03 Calibration End Date: 11/28/2014 19:56 Calibration ID: 25581

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-158831/7	UXR7680.D
Level 2	STDA9 240-158831/6	UXR7679.D
Level 3	STDA9 240-158831/5	UXR7678.D
Level 4	STDA9 240-158831/4	UXR7677.D
Level 5	STDA9 240-158831/3	UXR7676.D
Level 6	STDA9 240-158831/2	UXR7675.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	51451 1920798	100399	244780	466557	1024435	10.0 400	20.0	50.0	100	200
Isopropyl ether	FB	Ave	28392 1437737	58672	157498	319791	719679	1.00 40.0	2.00	5.00	10.0	20.0
Chloroprene	FB	Ave	61028 3249704	124506	334332	728000	1556853	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	91566 4785284	193436	497580	1077911	2350281	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	17001 643629	38538	81191	159413	340140	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	41401 1701162	78255	198326	411056	896256	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	201153 9082585	396460	1037748	2189414	4849981	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	68083 3413154	134783	359759	773183	1733427	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	8051 465853	20611	50272	107853	276208	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	23431 1284094	51345	135694	287157	707747	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	44640 2405794	92204	243971	523198	1236101	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Qua	7848 455468	17116	36696	82982	208752	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	28202 1709114	61720	155652	356301	854155	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	4740 216132	8100	24349	50424	133531	10.0 400	20.0	50.0	100	200
Pentachloroethane	CBZ	Ave	35279 2115127	72546	197506	437637	996291	2.00 80.0	4.00	10.0	20.0	40.0
1,2,3-Trimethylbenzene	DCB	Lin1	117909 7513071	242378	684160	1570860	3619426	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-44867-1 Analy Batch No.: 158831

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2014 18:03 Calibration End Date: 11/28/2014 19:56 Calibration ID: 25581

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzyl chloride	DCB	Qua	3654 265753	5701	16996	41380	113129	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	59140 2613529	115436	297812	613977	1308016	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCB	Qua	50451 4944524	115607	351524	897998	2514581	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	CBZ	Ave	5107 233798	9415	23993	50050	124807	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD Lin1 = Linear 1/conc ISTD Qua = Quadratic ISTD
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TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7675.D  
 Lims ID: STDA9 L6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 28-Nov-2014 18:03:30 ALS Bottle#: 21 Worklist Smp#: 2  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038004-002  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub25  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 09:48:29 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 09:35:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1492093	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	90	1070296	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	472482	10.0	10.0	
24 Acetonitrile	41	3.498	3.510	-0.012	99	1920798	400.0	388.2	
35 Isopropyl ether	87	4.305	4.305	0.000	95	1437737	40.0	44.7	
36 2-Chloro-1,3-butadiene	53	4.340	4.340	0.000	93	3249704	40.0	46.3	
37 Tert-butyl ethyl ether	59	4.613	4.613	0.000	96	4785284	40.0	45.5	
41 Ethyl acetate	43	4.815	4.827	-0.011	99	643629	80.0	75.9	
42 Propionitrile	54	4.838	4.850	-0.012	99	1701162	400.0	410.5	
43 Methacrylonitrile	41	4.969	4.969	0.000	96	9082585	400.0	421.1	
54 Tert-amyl methyl ether	73	5.597	5.609	-0.012	94	3413154	40.0	44.9	
56 n-Butanol	56	5.989	5.989	0.000	94	465853	1000.0	1047.7	
58 Ethyl acrylate	55	6.143	6.155	-0.012	99	1284094	40.0	44.8	
61 Methyl methacrylate	41	6.344	6.356	-0.012	96	2405794	80.0	92.2	
65 2-Nitropropane	41	6.724	6.724	0.000	98	455468	80.0	79.9	
77 n-Butyl acetate	56	7.874	7.874	0.000	100	233798	40.0	42.7	
80 1-Chlorohexane	91	8.455	8.455	0.000	92	1709114	40.0	47.0	
90 Cyclohexanone	55	9.546	9.546	0.000	96	216132	400.0	422.0	
100 Pentachloroethane	167	10.353	10.353	0.000	0	2115127	80.0	95.4	
106 1,2,3-Trimethylbenzene	105	10.791	10.791	0.000	99	7513071	40.0	41.8	
107 Benzyl chloride	126	10.886	10.886	0.000	0	265753	40.0	39.9	
112 1,3,5-Trichlorobenzene	180	12.096	12.096	0.000	97	2613529	40.0	42.5	
117 2-Methylnaphthalene	142	14.384	14.384	0.000	100	4944524	80.0	79.7	

**Reagents:**

VMRA9W\_00084

Amount Added: 32.00

Units: uL

VM50IS\_00044

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7675.D

Injection Date: 28-Nov-2014 18:03:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STDA9 L6

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

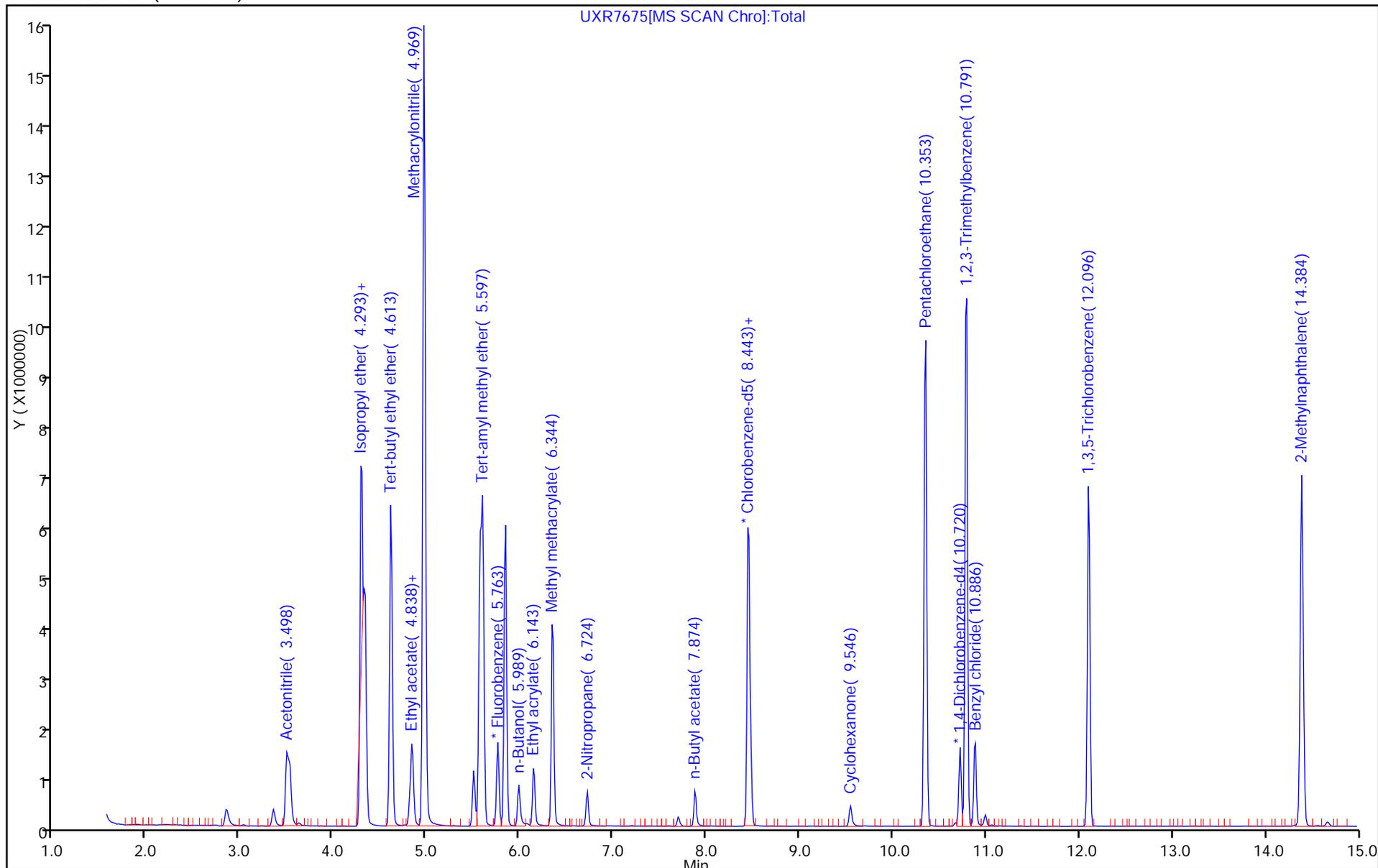
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7676.D  
 Lims ID: STDA9 L5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 28-Nov-2014 18:26:30 ALS Bottle#: 22 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038004-003  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub25  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 09:48:30 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 09:36:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	99	1558768	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	89	1113547	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	97	488921	10.0	10.0	
24 Acetonitrile	41	3.498	3.510	-0.012	99	1024435	200.0	198.2	
35 Isopropyl ether	87	4.305	4.305	0.000	94	719679	20.0	21.4	
36 2-Chloro-1,3-butadiene	53	4.340	4.340	0.000	94	1556853	20.0	21.2	
37 Tert-butyl ethyl ether	59	4.613	4.613	0.000	95	2350281	20.0	21.4	
41 Ethyl acetate	43	4.814	4.827	-0.012	99	340140	40.0	38.4	
42 Propionitrile	54	4.850	4.850	0.000	98	896256	200.0	207.0	
43 Methacrylonitrile	41	4.969	4.969	0.000	96	4849981	200.0	215.2	
54 Tert-amyl methyl ether	73	5.597	5.609	-0.012	94	1733427	20.0	21.8	
56 n-Butanol	56	5.988	5.989	-0.001	95	276208	500.0	597.1	
58 Ethyl acrylate	55	6.154	6.155	-0.001	99	707747	20.0	23.6	
61 Methyl methacrylate	41	6.356	6.356	0.000	95	1236101	40.0	45.3	
65 2-Nitropropane	41	6.724	6.724	0.000	98	208752	40.0	41.0	
77 n-Butyl acetate	56	7.874	7.874	0.000	99	124807	20.0	21.9	
80 1-Chlorohexane	91	8.455	8.455	0.000	91	854155	20.0	22.6	
90 Cyclohexanone	55	9.546	9.546	0.000	95	133531	200.0	252.0	
100 Pentachloroethane	167	10.352	10.353	-0.001	0	996291	40.0	43.2	
106 1,2,3-Trimethylbenzene	105	10.791	10.791	0.000	99	3619426	20.0	19.7	
107 Benzyl chloride	126	10.886	10.886	0.000	0	113129	20.0	20.6	
112 1,3,5-Trichlorobenzene	180	12.096	12.096	0.000	97	1308016	20.0	20.6	
117 2-Methylnaphthalene	142	14.384	14.384	0.000	99	2514581	40.0	42.2	

**Reagents:**

VMRA9W\_00084

Amount Added: 16.00

Units: uL

VM50IS\_00044

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7676.D

Injection Date: 28-Nov-2014 18:26:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STDA9 L5

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

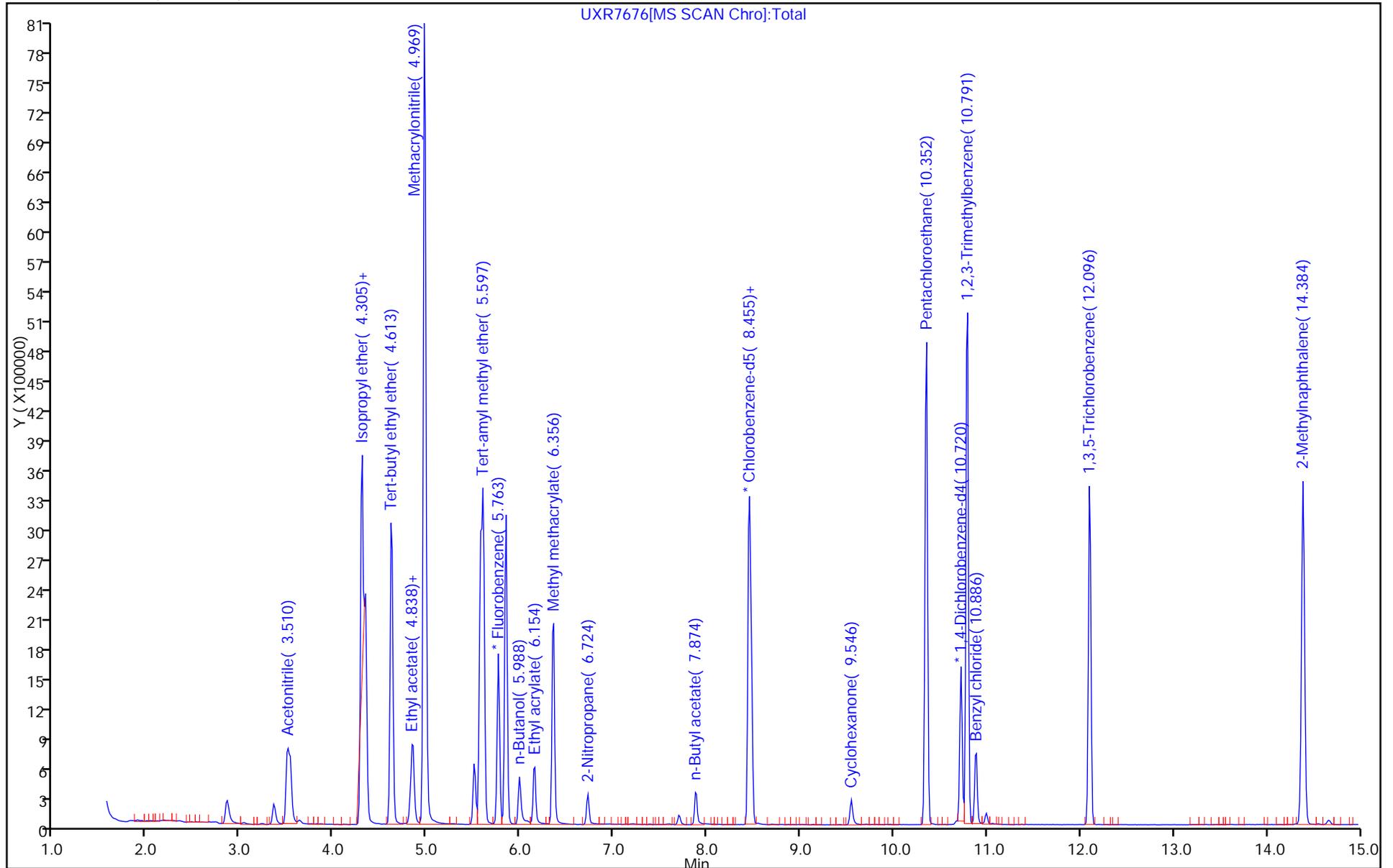
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7677.D  
 Lims ID: STDA9 L4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 28-Nov-2014 18:48:30 ALS Bottle#: 23 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038004-004  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub25  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 09:48:30 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler Date: 01-Dec-2014 09:36:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1525550	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	89	1058066	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	484668	10.0	10.0	
24 Acetonitrile	41	3.510	3.510	0.000	100	466557	100.0	92.2	
35 Isopropyl ether	87	4.305	4.305	0.000	94	319791	10.0	9.73	
36 2-Chloro-1,3-butadiene	53	4.340	4.340	0.000	93	728000	10.0	10.1	
37 Tert-butyl ethyl ether	59	4.613	4.613	0.000	95	1077911	10.0	10.0	
41 Ethyl acetate	43	4.827	4.827	0.000	99	159413	20.0	18.4	
42 Propionitrile	54	4.850	4.850	0.000	99	411056	100.0	97.0	
43 Methacrylonitrile	41	4.969	4.969	0.000	97	2189414	100.0	99.3	
54 Tert-amyl methyl ether	73	5.609	5.609	0.000	89	773183	10.0	9.95	
56 n-Butanol	56	5.989	5.989	0.000	96	107853	250.0	245.4	
58 Ethyl acrylate	55	6.155	6.155	0.000	99	287157	10.0	9.80	
61 Methyl methacrylate	41	6.356	6.356	0.000	96	523198	20.0	19.6	
65 2-Nitropropane	41	6.724	6.724	0.000	99	82982	20.0	18.7	
77 n-Butyl acetate	56	7.874	7.874	0.000	99	50050	10.0	9.24	
80 1-Chlorohexane	91	8.455	8.455	0.000	91	356301	10.0	9.92	
90 Cyclohexanone	55	9.546	9.546	0.000	97	50424	100.0	96.0	
100 Pentachloroethane	167	10.353	10.353	0.000	0	437637	20.0	20.0	
106 1,2,3-Trimethylbenzene	105	10.791	10.791	0.000	98	1570860	10.0	8.97	
107 Benzyl chloride	126	10.886	10.886	0.000	0	41380	10.0	9.19	
112 1,3,5-Trichlorobenzene	180	12.096	12.096	0.000	97	613977	10.0	9.74	
117 2-Methylnaphthalene	142	14.384	14.384	0.000	99	897998	20.0	17.3	

Reagents:

VMRA9W\_00084 Amount Added: 8.00 Units: uL  
 VM50IS\_00044 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7677.D

Injection Date: 28-Nov-2014 18:48:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STDA9 L4

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

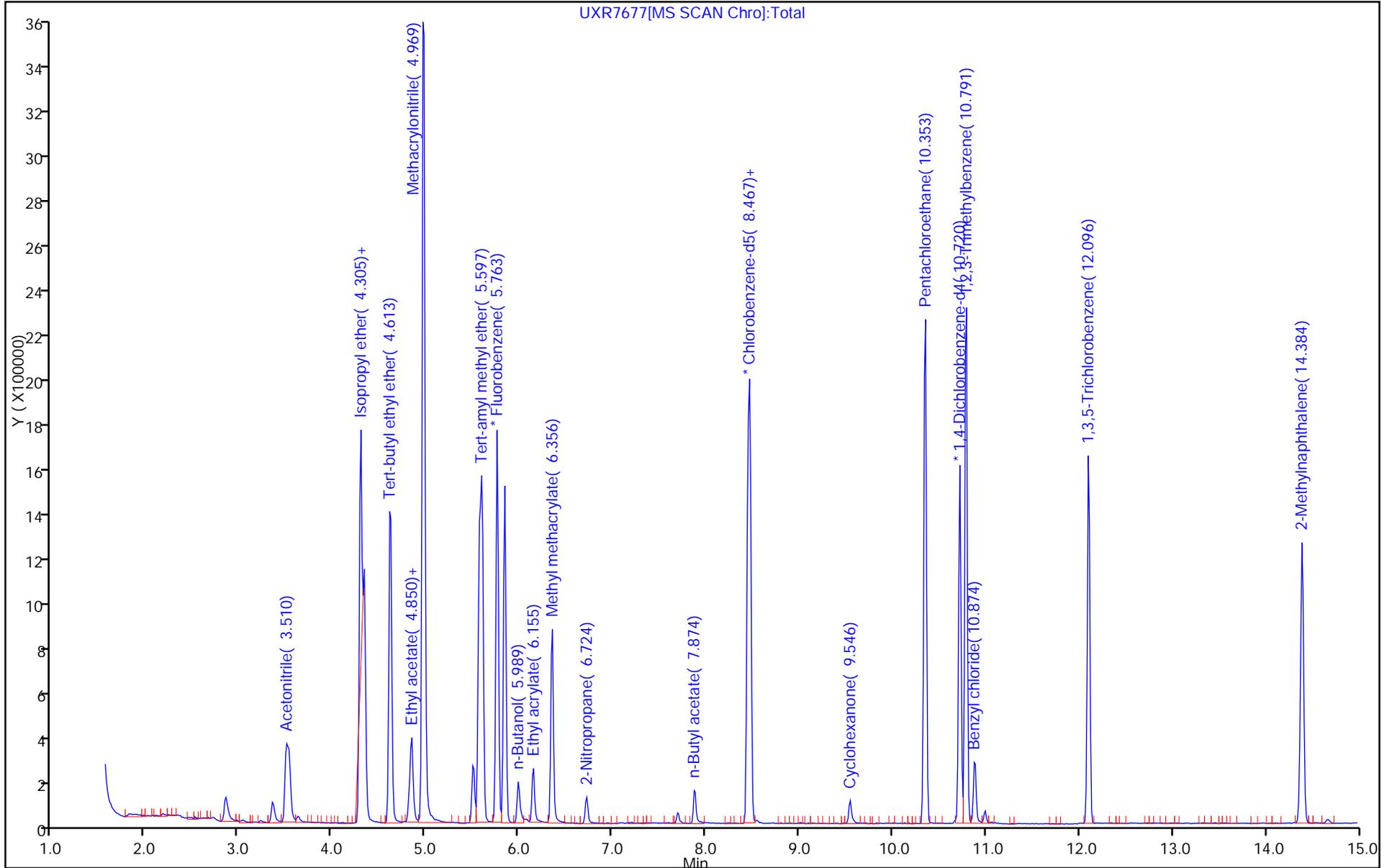
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7678.D  
 Lims ID: STDA9 L3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 28-Nov-2014 19:11:30 ALS Bottle#: 24 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038004-005  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub25  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 09:48:31 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler Date: 01-Dec-2014 09:36:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1505088	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	88	1017974	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	467532	10.0	10.0	
24 Acetonitrile	41	3.510	3.510	0.000	97	244780	50.0	49.0	
35 Isopropyl ether	87	4.305	4.305	0.000	93	157498	5.00	4.86	
36 2-Chloro-1,3-butadiene	53	4.340	4.340	0.000	93	334332	5.00	4.72	
37 Tert-butyl ethyl ether	59	4.613	4.613	0.000	95	497580	5.00	4.69	
41 Ethyl acetate	43	4.815	4.827	-0.011	99	81191	10.0	9.50	
42 Propionitrile	54	4.850	4.850	0.000	99	198326	50.0	47.4	
43 Methacrylonitrile	41	4.969	4.969	0.000	97	1037748	50.0	47.7	
54 Tert-amyl methyl ether	73	5.597	5.609	-0.012	89	359759	5.00	4.69	
56 n-Butanol	56	5.989	5.989	0.000	92	50272	125.0	118.9	
58 Ethyl acrylate	55	6.155	6.155	0.000	98	135694	5.00	4.69	
61 Methyl methacrylate	41	6.356	6.356	0.000	95	243971	10.0	9.27	
65 2-Nitropropane	41	6.724	6.724	0.000	98	36696	10.0	9.08	
77 n-Butyl acetate	56	7.886	7.874	0.012	98	23993	5.00	4.61	
80 1-Chlorohexane	91	8.455	8.455	0.000	83	155652	5.00	4.50	
90 Cyclohexanone	55	9.546	9.546	0.000	93	24349	50.0	48.0	
100 Pentachloroethane	167	10.352	10.353	-0.001	0	197506	10.0	9.37	
106 1,2,3-Trimethylbenzene	105	10.791	10.791	0.000	98	684160	5.00	4.36	
107 Benzyl chloride	126	10.874	10.886	-0.012	0	16996	5.00	4.59	
112 1,3,5-Trichlorobenzene	180	12.096	12.096	0.000	97	297812	5.00	4.90	
117 2-Methylnaphthalene	142	14.384	14.384	0.000	99	351524	10.0	8.66	

Reagents:

VMRA9W\_00084 Amount Added: 4.00 Units: uL  
 VM50IS\_00044 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7678.D

Injection Date: 28-Nov-2014 19:11:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STDA9 L3

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

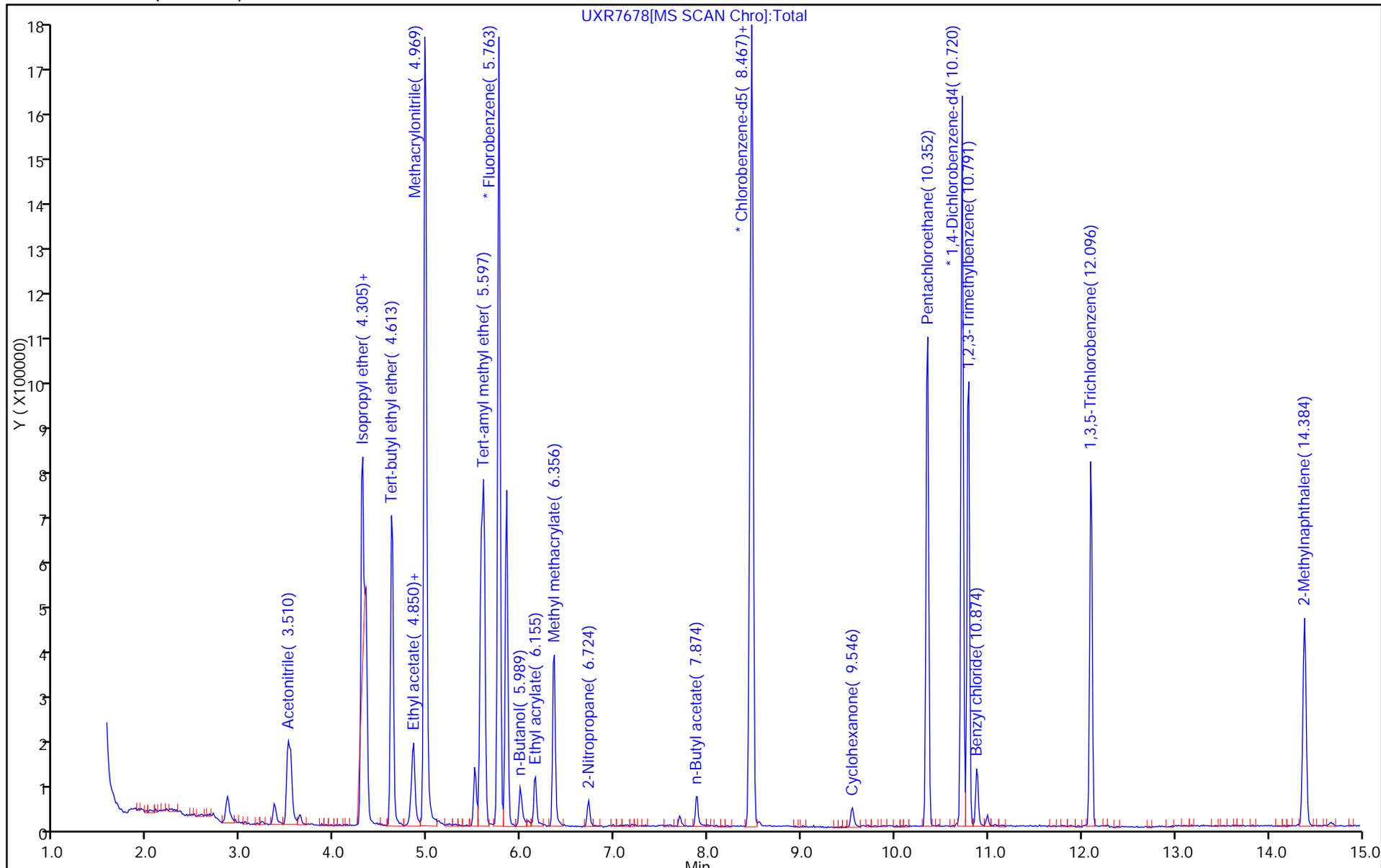
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7679.D  
 Lims ID: STDA9 L2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 28-Nov-2014 19:33:30 ALS Bottle#: 25 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038004-006  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub25  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 09:48:32 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 09:37:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1466378	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.479	8.467	0.012	87	1000546	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	97	468094	10.0	10.0	
24 Acetonitrile	41	3.510	3.510	0.000	99	100399	20.0	20.6	
35 Isopropyl ether	87	4.305	4.305	0.000	92	58672	2.00	1.86	
36 2-Chloro-1,3-butadiene	53	4.340	4.340	0.000	92	124506	2.00	1.80	
37 Tert-butyl ethyl ether	59	4.613	4.613	0.000	97	193436	2.00	1.87	
41 Ethyl acetate	43	4.826	4.827	0.000	99	38538	4.00	4.63	
42 Propionitrile	54	4.850	4.850	0.000	99	78255	20.0	19.2	
43 Methacrylonitrile	41	4.981	4.969	0.012	96	396460	20.0	18.7	
54 Tert-amyl methyl ether	73	5.597	5.609	-0.012	90	134783	2.00	1.80	
56 n-Butanol	56	5.988	5.989	-0.001	92	20611	50.0	49.6	
58 Ethyl acrylate	55	6.155	6.155	-0.001	97	51345	2.00	1.82	
61 Methyl methacrylate	41	6.356	6.356	0.000	95	92204	4.00	3.60	
65 2-Nitropropane	41	6.724	6.724	0.000	99	17116	4.00	4.75	
77 n-Butyl acetate	56	7.874	7.874	0.000	94	9415	2.00	1.84	
80 1-Chlorohexane	91	8.455	8.455	0.000	80	61720	2.00	1.82	
90 Cyclohexanone	55	9.546	9.546	0.000	92	8100	20.0	16.0	
100 Pentachloroethane	167	10.352	10.353	-0.001	0	72546	4.00	3.50	
106 1,2,3-Trimethylbenzene	105	10.791	10.791	0.000	99	242378	2.00	1.91	
107 Benzyl chloride	126	10.874	10.886	-0.012	0	5701	2.00	2.09	
112 1,3,5-Trichlorobenzene	180	12.096	12.096	0.000	97	115436	2.00	1.90	
117 2-Methylnaphthalene	142	14.384	14.384	0.000	98	115607	4.00	4.62	

**Reagents:**

VMRA9W\_00084 Amount Added: 1.60 Units: uL  
 VM50IS\_00044 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7679.D

Injection Date: 28-Nov-2014 19:33:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STDA9 L2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

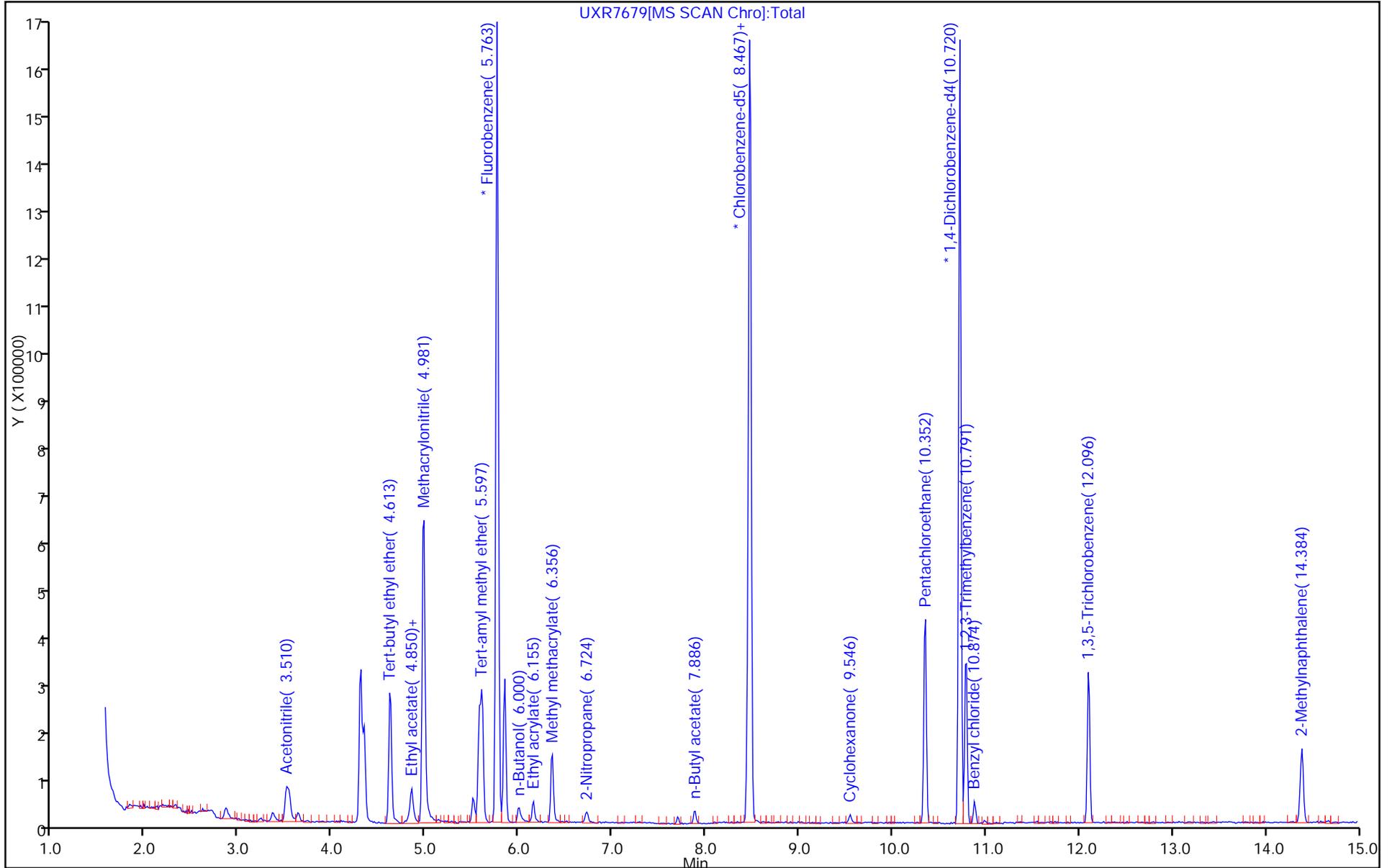
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Lims ID: STDA9 L1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 28-Nov-2014 19:56:30 ALS Bottle#: 26 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038004-007  
 Operator ID: 1904 Instrument ID: A3UX17  
 Sublist: chrom-8260\_17\*sub25  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 09:48:33 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 09:37:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	99	1407085	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.479	8.467	0.012	88	929686	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	452548	10.0	10.0	
24 Acetonitrile	41	3.510	3.510	0.000	99	51451	10.0	11.0	
35 Isopropyl ether	87	4.305	4.305	0.000	93	28392	1.00	0.9367	
36 2-Chloro-1,3-butadiene	53	4.340	4.340	0.000	94	61028	1.00	0.9216	
37 Tert-butyl ethyl ether	59	4.613	4.613	0.000	92	91566	1.00	0.9222	
41 Ethyl acetate	43	4.827	4.827	0.001	97	17001	2.00	2.13	
42 Propionitrile	54	4.850	4.850	0.000	98	41401	10.0	10.6	
43 Methacrylonitrile	41	4.981	4.969	0.012	96	201153	10.0	9.89	
54 Tert-amyl methyl ether	73	5.597	5.609	-0.012	88	68083	1.00	0.9499	
56 n-Butanol	56	6.001	5.989	0.012	84	8051	25.0	20.8	
58 Ethyl acrylate	55	6.155	6.155	0.000	97	23431	1.00	0.8671	
61 Methyl methacrylate	41	6.356	6.356	0.000	94	44640	2.00	1.81	
65 2-Nitropropane	41	6.724	6.724	0.000	95	7848	2.00	2.61	
77 n-Butyl acetate	56	7.886	7.874	0.012	95	5107	1.00	1.07	
80 1-Chlorohexane	91	8.455	8.455	0.000	80	28202	1.00	0.8935	
90 Cyclohexanone	55	9.546	9.546	0.000	87	4740	10.0	9.66	
100 Pentachloroethane	167	10.353	10.353	0.000	0	35279	2.00	1.83	
106 1,2,3-Trimethylbenzene	105	10.791	10.791	0.000	97	117909	1.00	1.24	
107 Benzyl chloride	126	10.886	10.886	0.000	0	3654	1.00	1.65	
112 1,3,5-Trichlorobenzene	180	12.108	12.096	0.012	96	59140	1.00	1.01	
117 2-Methylnaphthalene	142	14.384	14.384	0.000	97	50451	2.00	3.52	

**Reagents:**

VMRA9W\_00084 Amount Added: 0.80 Units: uL  
 VM50IS\_00044 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D

Injection Date: 28-Nov-2014 19:56:30

Instrument ID: A3UX17

Operator ID: 1904

Lims ID: STDA9 L1

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

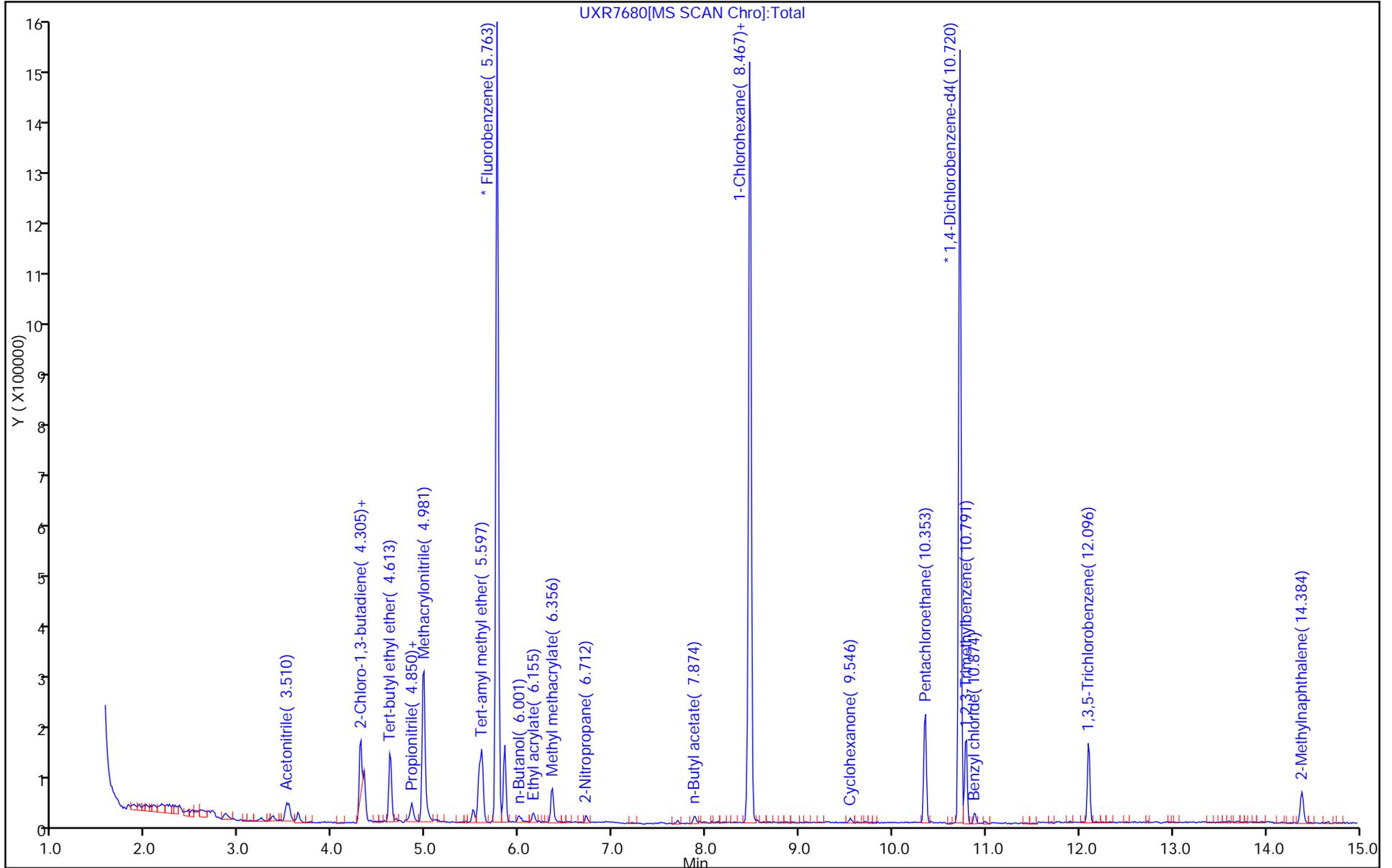
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: 8260\_17

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-158775/8 Calibration Date: 11/28/2014 13:44  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 11:29  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 13:21  
 Lab File ID: UXM9943.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2750	0.2294		0.00834	0.0100	-16.6	50.0
Chloromethane	Ave	0.3208	0.2881	0.1000	0.00898	0.0100	-10.2	50.0
Vinyl chloride	Ave	0.3331	0.3265		0.00980	0.0100	-2.0	20.0
Butadiene	Ave	0.3525	0.3332		0.00945	0.0100	-5.5	50.0
Bromomethane	Ave	0.1175	0.1258		0.0107	0.0100	7.1	50.0
Chloroethane	Ave	0.1665	0.1690		0.0102	0.0100	1.5	50.0
Dichlorofluoromethane	Ave	0.3096	0.3422		0.0111	0.0100	10.5	50.0
Trichlorofluoromethane	Ave	0.2852	0.3071		0.0108	0.0100	7.7	50.0
Ethyl ether	Ave	0.2180	0.2199		0.0101	0.0100	0.9	50.0
Acrolein	Ave	0.0148	0.0264		0.0889	0.0500	77.8*	50.0
1,1-Dichloroethene	Ave	0.2259	0.2311		0.0102	0.0100	2.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1925	0.2003		0.0104	0.0100	4.1	50.0
Acetone	Ave	0.0720	0.0752		0.0209	0.0200	4.5	50.0
Iodomethane	Ave	0.3415	0.3561		0.0104	0.0100	4.3	50.0
Carbon disulfide	Ave	0.7401	0.7653		0.0103	0.0100	3.4	50.0
3-Chloro-1-propene	Ave	0.1480	0.1410		0.00952	0.0100	-4.8	50.0
Methyl acetate	Ave	0.1576	0.1469		0.0466	0.0500	-6.8	50.0
Methylene Chloride	Ave	0.2470	0.2470		0.0100	0.0100	0.0	50.0
2-Methyl-2-propanol	Ave	0.0159	0.0142		0.0894	0.100	-10.6	50.0
Acrylonitrile	Ave	0.0807	0.0793		0.0982	0.100	-1.8	50.0
trans-1,2-Dichloroethene	Ave	0.2511	0.2632		0.0105	0.0100	4.8	50.0
Methyl tert-butyl ether	Ave	0.6406	0.6309		0.00985	0.0100	-1.5	50.0
Hexane	Ave	0.0591	0.0642		0.0109	0.0100	8.6	20.0
1,1-Dichloroethane	Ave	0.5052	0.5182	0.1000	0.0103	0.0100	2.6	50.0
Vinyl acetate	Ave	0.1162	0.1644		0.0113	0.00800	41.4	50.0
2-Butanone	Ave	0.0908	0.0849		0.0187	0.0200	-6.5	50.0
cis-1,2-Dichloroethene	Ave	0.2661	0.2754		0.0103	0.0100	3.5	50.0
2,2-Dichloropropane	Ave	0.3125	0.3172		0.0102	0.0100	1.5	50.0
Chlorobromomethane	Ave	0.1205	0.1210		0.0100	0.0100	0.4	50.0
Tetrahydrofuran	Ave	0.0577	0.0491		0.0170	0.0200	-14.9	50.0
Chloroform	Ave	0.4103	0.4136		0.0101	0.0100	0.8	20.0
1,1,1-Trichloroethane	Ave	0.3514	0.3653		0.0104	0.0100	4.0	50.0
Cyclohexane	Ave	0.4869	0.5296		0.0109	0.0100	8.8	50.0
1,1-Dichloropropene	Ave	0.3129	0.3576		0.0114	0.0100	14.3	50.0
Carbon tetrachloride	Ave	0.3176	0.3330		0.0105	0.0100	4.9	50.0
Isobutanol	Ave	0.0047	0.0047		0.252	0.250	0.8	50.0
1,2-Dichloroethane	Ave	0.3542	0.3561		0.0101	0.0100	0.5	50.0
Benzene	Ave	0.9945	0.9909		0.00996	0.0100	-0.4	50.0
n-Heptane	Lin1		0.2143		0.0107	0.0100	7.1	50.0
Trichloroethene	Ave	0.2523	0.2555		0.0101	0.0100	1.3	50.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-158775/8 Calibration Date: 11/28/2014 13:44  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 11:29  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 13:21  
 Lab File ID: UXM9943.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2572	0.2677		0.0104	0.0100	4.1	20.0
Methylcyclohexane	Ave	0.3585	0.3957		0.0110	0.0100	10.4	50.0
Dibromomethane	Ave	0.1251	0.1215		0.00971	0.0100	-2.9	50.0
1,4-Dioxane	Ave	0.0015	0.0016		0.216	0.200	8.2	50.0
Bromodichloromethane	Ave	0.2981	0.2914		0.00977	0.0100	-2.3	50.0
2-Chloroethyl vinyl ether	Ave	0.1231	0.1209		0.0118	0.0120	-1.8	50.0
cis-1,3-Dichloropropene	Ave	0.3313	0.3391		0.0102	0.0100	2.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1786	0.1688		0.0189	0.0200	-5.5	50.0
Toluene	Ave	1.418	1.430		0.0101	0.0100	0.9	20.0
trans-1,3-Dichloropropene	Ave	0.3818	0.3981		0.0104	0.0100	4.3	50.0
Ethyl methacrylate	Ave	0.2915	0.2918		0.0100	0.0100	0.1	50.0
1,1,2-Trichloroethane	Ave	0.2464	0.2428		0.00985	0.0100	-1.5	50.0
1,3-Dichloropropane	Ave	0.4327	0.4255		0.00983	0.0100	-1.7	50.0
Tetrachloroethene	Ave	0.2623	0.2742		0.0105	0.0100	4.5	50.0
2-Hexanone	Ave	0.1642	0.1621		0.0197	0.0200	-1.3	50.0
Dibromochloromethane	Ave	0.2712	0.2712		0.0100	0.0100	0.0	50.0
Ethylene Dibromide	Ave	0.2445	0.2403		0.00983	0.0100	-1.7	50.0
Chlorobenzene	Ave	0.8908	0.8892	0.3000	0.00998	0.0100	-0.2	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3123	0.3130		0.0100	0.0100	0.2	50.0
Ethylbenzene	Ave	0.4735	0.4883		0.0103	0.0100	3.1	20.0
m-Xylene & p-Xylene	Ave	0.5865	0.6129		0.0104	0.0100	4.5	50.0
o-Xylene	Ave	0.5920	0.6006		0.0101	0.0100	1.4	50.0
Styrene	Ave	0.9088	0.8908		0.00980	0.0100	-2.0	50.0
Bromoform	Ave	0.1740	0.1692	0.1000	0.00972	0.0100	-2.8	50.0
Isopropylbenzene	Ave	1.461	1.491		0.0102	0.0100	2.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5423	0.5293	0.3000	0.00976	0.0100	-2.4	50.0
Bromobenzene	Ave	0.6658	0.7072		0.0106	0.0100	6.2	50.0
1,2,3-Trichloropropane	Ave	0.1812	0.1825		0.0101	0.0100	0.7	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1730	0.1691		0.00978	0.0100	-2.2	50.0
N-Propylbenzene	Ave	0.7105	0.7341		0.0103	0.0100	3.3	50.0
2-Chlorotoluene	Ave	0.6237	0.6435		0.0103	0.0100	3.2	50.0
1,3,5-Trimethylbenzene	Ave	2.118	2.190		0.0103	0.0100	3.4	50.0
4-Chlorotoluene	Ave	0.6455	0.6811		0.0106	0.0100	5.5	50.0
tert-Butylbenzene	Ave	1.780	1.867		0.0105	0.0100	4.9	50.0
1,2,4-Trimethylbenzene	Ave	2.250	2.302		0.0102	0.0100	2.3	50.0
sec-Butylbenzene	Ave	2.487	2.588		0.0104	0.0100	4.1	50.0
1,3-Dichlorobenzene	Ave	1.285	1.315		0.0102	0.0100	2.3	50.0
4-Isopropyltoluene	Ave	2.159	2.215		0.0103	0.0100	2.6	50.0
1,4-Dichlorobenzene	Ave	1.330	1.344		0.0101	0.0100	1.1	50.0
n-Butylbenzene	Ave	1.810	1.843		0.0102	0.0100	1.9	50.0
1,2-Dichlorobenzene	Ave	1.248	1.257		0.0101	0.0100	0.7	50.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-158775/8 Calibration Date: 11/28/2014 13:44  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 11:29  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 13:21  
 Lab File ID: UXM9943.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1025	0.1001		0.00976	0.0100	-2.4	50.0
1,2,4-Trichlorobenzene	Ave	0.7046	0.6900		0.00979	0.0100	-2.1	50.0
Hexachlorobutadiene	Ave	0.3308	0.3133		0.00947	0.0100	-5.3	50.0
Naphthalene	Ave	1.600	1.569		0.00981	0.0100	-1.9	50.0
1,2,3-Trichlorobenzene	Ave	0.6297	0.6231		0.00989	0.0100	-1.1	50.0
Dibromofluoromethane (Surr)	Ave	0.2184	0.2179		0.0114	0.0114	-0.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2722	0.2697		0.0113	0.0114	-0.9	50.0
Toluene-d8 (Surr)	Ave	1.173	1.193		0.0116	0.0114	1.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4208	0.4267		0.0116	0.0114	1.4	50.0

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9943.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 28-Nov-2014 13:44:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-008  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist:  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:18 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 28-Nov-2014 14:05:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1406641	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	88	1006700	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	554267	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	93	349428	11.4	11.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	432530	11.4	11.3	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1369530	11.4	11.6	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	90	489743	11.4	11.6	
9 Dichlorodifluoromethane	85	1.627	1.627	0.000	98	322731	10.0	8.34	
10 Chloromethane	50	1.769	1.769	0.000	98	405176	10.0	8.98	
11 Vinyl chloride	62	1.888	1.888	0.000	98	459199	10.0	9.80	
12 Butadiene	54	1.935	1.935	0.000	0	468640	10.0	9.45	
13 Bromomethane	94	2.220	2.220	0.000	91	176990	10.0	10.7	
14 Chloroethane	64	2.327	2.327	0.000	99	237738	10.0	10.2	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	481359	10.0	11.1	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	431945	10.0	10.8	
17 Ethyl ether	59	2.836	2.836	0.000	93	309283	10.0	10.1	
18 Acrolein	56	2.955	2.955	0.000	98	185628	50.0	88.9	
19 1,1-Dichloroethene	96	3.062	3.062	0.000	94	325023	10.0	10.2	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	92	281716	10.0	10.4	
21 Acetone	43	3.085	3.085	0.000	100	211485	20.0	20.9	
23 Iodomethane	142	3.192	3.192	0.000	98	500964	10.0	10.4	
24 Carbon disulfide	76	3.263	3.263	0.000	100	1076454	10.0	10.3	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	87	198311	10.0	9.52	
27 Methyl acetate	43	3.394	3.394	0.000	98	1033078	50.0	46.6	
28 Methylene Chloride	84	3.489	3.489	0.000	99	347498	10.0	10.0	
29 2-Methyl-2-propanol	59	3.584	3.584	0.000	99	199443	100.0	89.4	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1114744	100.0	98.2	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	77	370230	10.0	10.5	
31 Methyl tert-butyl ether	73	3.750	3.750	0.000	99	887463	10.0	9.85	
33 Hexane	86	3.999	3.999	0.000	90	90257	10.0	10.9	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	728957	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	98	184978	8.00	11.3	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	51	238791	20.0	18.7	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	86	387409	10.0	10.3	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	90	446147	10.0	10.2	
45 Chlorobromomethane	128	4.805	4.805	0.000	96	170261	10.0	10.0	
46 Tetrahydrofuran	42	4.852	4.852	0.000	86	138152	20.0	17.0	
47 Chloroform	83	4.876	4.864	0.012	95	581840	10.0	10.1	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	513881	10.0	10.4	
49 Cyclohexane	56	5.113	5.113	0.000	93	744994	10.0	10.9	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	92	503056	10.0	11.4	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	468387	10.0	10.5	
52 Isobutyl alcohol	41	5.232	5.244	-0.012	89	166527	250.0	251.9	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	59	500890	10.0	10.1	
54 Benzene	78	5.362	5.362	0.000	98	1393857	10.0	9.96	
56 n-Heptane	57	5.588	5.588	0.000	89	301421	10.0	10.7	
58 Trichloroethene	130	5.908	5.908	0.000	95	359391	10.0	10.1	
60 Methylcyclohexane	83	6.098	6.098	0.000	86	556550	10.0	11.0	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	72	376590	10.0	10.4	
63 Dibromomethane	93	6.192	6.192	0.000	92	170906	10.0	9.71	
64 1,4-Dioxane	88	6.204	6.204	0.000	97	45994	200.0	216.4	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	409822	10.0	9.77	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	203993	12.0	11.8	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	91	476999	10.0	10.2	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	96	474781	20.0	18.9	
70 Toluene	91	7.022	7.023	0.000	97	1439434	10.0	10.1	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	98	400777	10.0	10.4	
72 Ethyl methacrylate	69	7.272	7.272	0.000	90	293715	10.0	10.0	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	91	244444	10.0	9.85	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	94	428378	10.0	9.83	
75 Tetrachloroethene	164	7.532	7.532	0.000	95	276056	10.0	10.5	
76 2-Hexanone	43	7.580	7.580	0.000	94	326290	20.0	19.7	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	273013	10.0	10.0	
80 Ethylene Dibromide	107	7.853	7.853	0.000	97	241946	10.0	9.83	
82 Chlorobenzene	112	8.303	8.303	0.000	94	895168	10.0	9.98	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	94	315064	10.0	10.0	
84 Ethylbenzene	106	8.398	8.398	0.000	99	491597	10.0	10.3	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	617011	10.0	10.4	
86 o-Xylene	106	8.884	8.884	0.000	97	604617	10.0	10.1	
87 Styrene	104	8.896	8.896	0.000	94	896721	10.0	9.80	
88 Bromoform	173	9.074	9.074	0.000	97	170309	10.0	9.72	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	1500962	10.0	10.2	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	293394	10.0	9.76	
93 Bromobenzene	156	9.536	9.537	0.000	96	391980	10.0	10.6	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	89	101130	10.0	10.1	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	89	93745	10.0	9.78	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	406870	10.0	10.3	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	356651	10.0	10.3	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	1214001	10.0	10.3	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	377511	10.0	10.6	
102 tert-Butylbenzene	119	10.129	10.129	0.000	92	1035033	10.0	10.5	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	97	1275785	10.0	10.2	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	1434407	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	98	728612	10.0	10.2	
107 4-Isopropyltoluene	119	10.485	10.473	0.012	97	1227577	10.0	10.3	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	95	745069	10.0	10.1	
111 n-Butylbenzene	91	10.888	10.888	0.000	98	1021690	10.0	10.2	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	97	696629	10.0	10.1	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	80	55456	10.0	9.76	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	95	382458	10.0	9.79	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	173645	10.0	9.47	
117 Naphthalene	128	12.750	12.750	0.000	97	869707	10.0	9.81	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	345339	10.0	9.89	
S 133 Xylenes, Total	106				0		20.0	20.6	
S 134 Trihalomethanes, Total	1				0		40.0	39.6	

**Reagents:**

VMFASPW_00066	Amount Added: 8.00	Units: uL	
VMFASAW_00059	Amount Added: 8.00	Units: uL	
VMFASGW_00069	Amount Added: 8.00	Units: uL	
VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00061	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00035	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9943.D

Injection Date: 28-Nov-2014 13:44:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: ICV

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

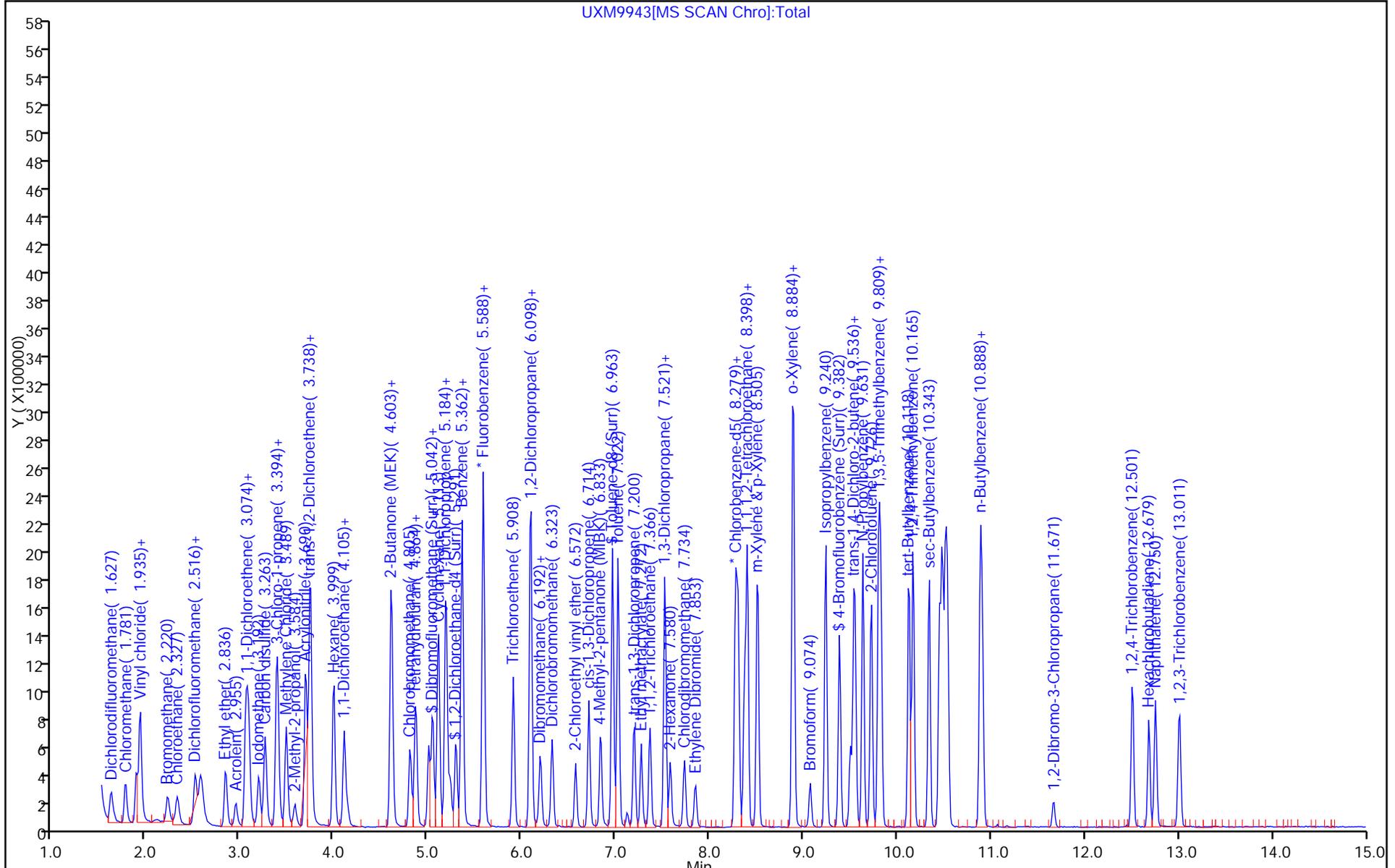
ALS Bottle#: 7

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



UXM9943[MS SCAN Chro]:Total

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-158775/15 Calibration Date: 11/28/2014 16:38  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 14:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 16:16  
 Lab File ID: UXM9950.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0223	0.0217		0.0973	0.100	-2.7	50.0
Isopropyl ether	Ave	0.2224	0.2266		0.0102	0.0100	1.9	50.0
Chloroprene	Ave	0.5020	0.5084		0.0101	0.0100	1.3	50.0
Tert-butyl ethyl ether	Ave	0.8637	0.8571		0.00992	0.0100	-0.8	50.0
Propionitrile	Ave	0.0276	0.0281		0.102	0.100	2.1	50.0
Ethyl acetate	Ave	0.0569	0.0848		0.0298	0.0200	49.1	50.0
Methacrylonitrile	Ave	0.1251	0.1253		0.100	0.100	0.2	50.0
Tert-amyl methyl ether	Ave	0.6392	0.6405		0.0100	0.0100	0.2	50.0
n-Butanol	Ave	0.0041	0.0038		0.232	0.250	-7.2	50.0
Ethyl acrylate	Ave	0.2456	0.2393		0.00974	0.0100	-2.6	50.0
Methyl methacrylate	Ave	0.1743	0.1697		0.0195	0.0200	-2.6	50.0
2-Nitropropane	Ave	0.0526	0.0504		0.0192	0.0200	-4.1	50.0
1-Chlorohexane	Ave	0.4011	0.3971		0.00990	0.0100	-1.0	50.0
Cyclohexanone	Ave	0.0141	0.0151		0.107	0.100	7.1	50.0
Pentachloroethane	Ave	0.2067	0.2063		0.0200	0.0200	-0.2	50.0
1,2,3-Trimethylbenzene	Ave	2.422	2.399		0.00990	0.0100	-1.0	50.0
Benzyl chloride	Lin1		0.1782		0.00812	0.0100	-18.8	50.0
1,3,5-Trichlorobenzene	Ave	0.8451	0.8147		0.00964	0.0100	-3.6	50.0
2-Methylnaphthalene	Ave	0.7814	0.7358		0.0188	0.0200	-5.8	50.0

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9950.D  
 Lims ID: ICV A9  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 28-Nov-2014 16:38:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-015  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:26 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: quayler

Date: 01-Dec-2014 07:59:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1399912	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	87	1021600	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	533586	10.0	10.0	
25 Acetonitrile	41	3.334	3.334	0.000	99	303133	100.0	97.3	
36 Isopropyl ether	87	4.176	4.164	0.012	92	317169	10.0	10.2	
37 2-Chloro-1,3-butadiene	53	4.188	4.188	0.000	95	711731	10.0	10.1	
38 Tert-butyl ethyl ether	59	4.485	4.485	0.000	99	1199802	10.0	9.92	
42 Propionitrile	54	4.651	4.651	0.000	99	393938	100.0	102.1	
43 Ethyl acetate	43	4.662	4.663	-0.001	99	237528	20.0	29.8	
44 Methacrylonitrile	41	4.781	4.781	0.000	93	1753820	100.0	100.2	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	96	896699	10.0	10.0	
57 n-Butanol	56	5.801	5.801	0.000	83	133451	250.0	232.0	
59 Ethyl acrylate	55	5.967	5.967	0.000	98	335015	10.0	9.74	
62 Methyl methacrylate	41	6.168	6.169	-0.001	92	475214	20.0	19.5	
66 2-Nitropropane	41	6.501	6.501	0.000	99	141186	20.0	19.2	
77 n-Butyl acetate	43	7.698	7.698	0.000	95	220068	10.0	14.6	
81 1-Chlorohexane	91	8.267	8.268	-0.001	89	405675	10.0	9.90	
91 Cyclohexanone	55	9.311	9.330	-0.019	93	80530	100.0	107.1	
103 Pentachloroethane	167	10.141	10.141	0.000	0	421416	20.0	20.0	
109 1,2,3-Trimethylbenzene	105	10.592	10.592	0.000	98	1280203	10.0	9.90	
110 Benzyl chloride	126	10.663	10.663	0.000	0	95070	10.0	8.12	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	97	434717	10.0	9.64	
119 2-Methylnaphthalene	142	14.066	14.066	0.000	93	785267	20.0	18.8	

**Reagents:**

VM50IS\_00045 Amount Added: 1.00 Units: uL  
 VMFASA9W\_00037 Amount Added: 8.00 Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9950.D

Injection Date: 28-Nov-2014 16:38:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: ICV A9

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

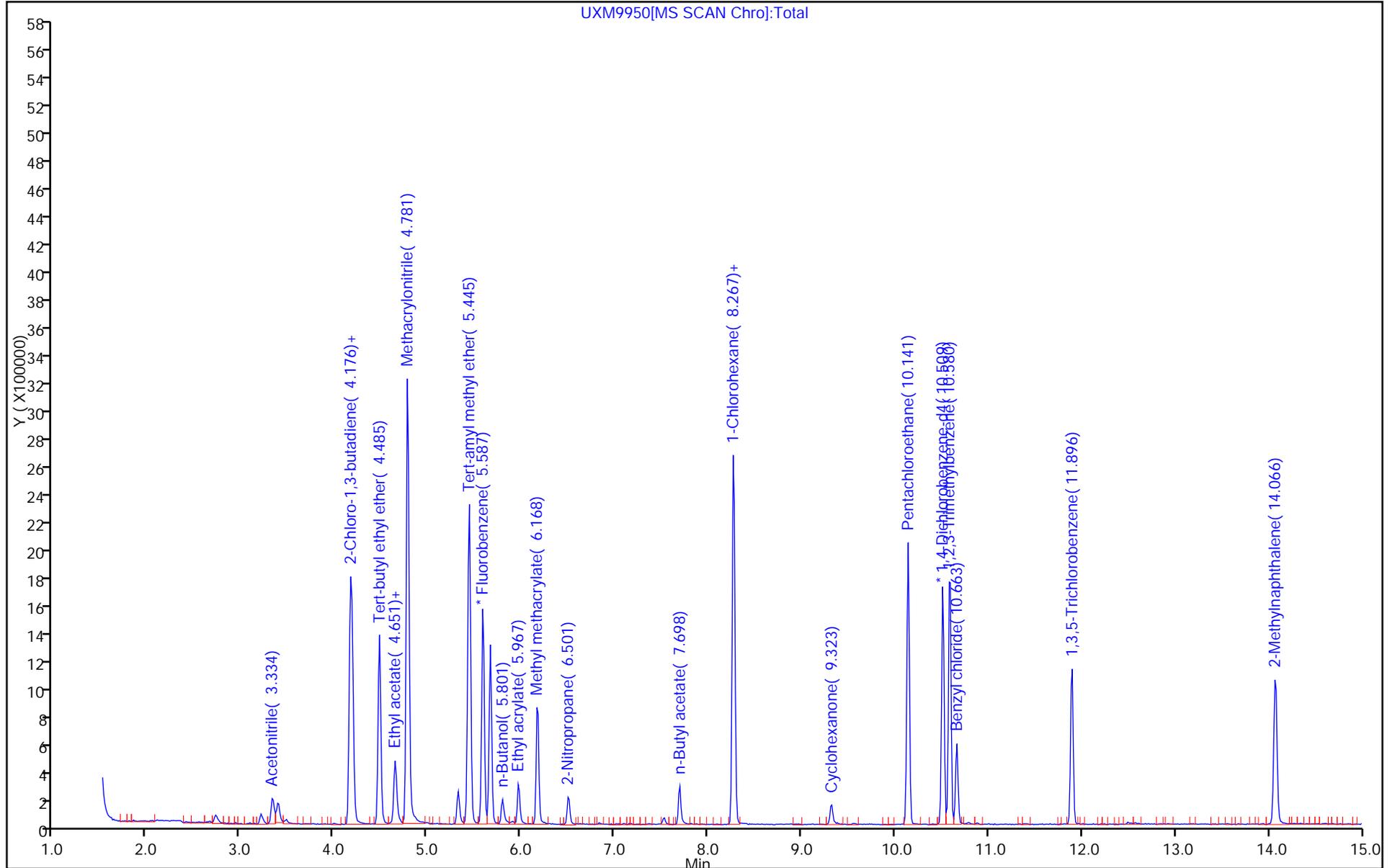
ALS Bottle#: 14

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-159290/2 Calibration Date: 12/03/2014 08:34  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 11:29  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 13:21  
 Lab File ID: UXM0014.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2750	0.2848		0.0104	0.0100	3.6	50.0
Chloromethane	Ave	0.3208	0.3775	0.1000	0.0118	0.0100	17.7	50.0
Vinyl chloride	Ave	0.3331	0.3507		0.0105	0.0100	5.3	20.0
Butadiene	Ave	0.3525	0.3674		0.0104	0.0100	4.2	50.0
Bromomethane	Ave	0.1175	0.1191		0.0101	0.0100	1.3	50.0
Chloroethane	Ave	0.1665	0.1685		0.0101	0.0100	1.2	50.0
Dichlorofluoromethane	Ave	0.3096	0.3198		0.0103	0.0100	3.3	50.0
Trichlorofluoromethane	Ave	0.2852	0.2744		0.00962	0.0100	-3.8	50.0
Ethyl ether	Ave	0.2180	0.2308		0.0106	0.0100	5.9	50.0
Acrolein	Ave	0.0148	0.0267		0.0901	0.0500	80.1*	50.0
1,1-Dichloroethene	Ave	0.2259	0.2223		0.00984	0.0100	-1.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1925	0.1802		0.00936	0.0100	-6.4	50.0
Acetone	Ave	0.0720	0.0718		0.0200	0.0200	-0.2	50.0
Iodomethane	Ave	0.3415	0.3418		0.0100	0.0100	0.0	50.0
Carbon disulfide	Ave	0.7401	0.6912		0.00934	0.0100	-6.6	50.0
3-Chloro-1-propene	Ave	0.1480	0.1408		0.00951	0.0100	-4.9	50.0
Methyl acetate	Ave	0.1576	0.1657		0.0526	0.0500	5.1	50.0
Methylene Chloride	Ave	0.2470	0.2502		0.0101	0.0100	1.3	50.0
2-Methyl-2-propanol	Ave	0.0159	0.0165		0.104	0.100	4.0	50.0
Acrylonitrile	Ave	0.0807	0.0832		0.103	0.100	3.1	50.0
Methyl tert-butyl ether	Ave	0.6406	0.6230		0.00973	0.0100	-2.7	50.0
trans-1,2-Dichloroethene	Ave	0.2511	0.2474		0.00985	0.0100	-1.5	50.0
Hexane	Ave	0.0591	0.0525		0.00888	0.0100	-11.2	20.0
1,1-Dichloroethane	Ave	0.5052	0.5268	0.1000	0.0104	0.0100	4.3	50.0
Vinyl acetate	Ave	0.1162	0.1357		0.0112	0.00960	16.8	50.0
2-Butanone	Ave	0.0908	0.0854		0.0188	0.0200	-5.9	50.0
cis-1,2-Dichloroethene	Ave	0.2661	0.2773		0.0104	0.0100	4.2	50.0
2,2-Dichloropropane	Ave	0.3125	0.3083		0.00987	0.0100	-1.3	50.0
Chlorobromomethane	Ave	0.1205	0.1222		0.0101	0.0100	1.3	50.0
Tetrahydrofuran	Ave	0.0577	0.0521		0.0181	0.0200	-9.6	50.0
Chloroform	Ave	0.4103	0.4178		0.0102	0.0100	1.8	20.0
1,1,1-Trichloroethane	Ave	0.3514	0.3431		0.00976	0.0100	-2.4	50.0
Cyclohexane	Ave	0.4869	0.4814		0.00989	0.0100	-1.1	50.0
1,1-Dichloropropene	Ave	0.3129	0.3192		0.0102	0.0100	2.0	50.0
Carbon tetrachloride	Ave	0.3176	0.3231		0.0102	0.0100	1.8	50.0
Isobutanol	Ave	0.0047	0.0052		0.277	0.250	10.8	50.0
1,2-Dichloroethane	Ave	0.3542	0.3819		0.0108	0.0100	7.8	50.0
Benzene	Ave	0.9945	0.9940		0.00999	0.0100	-0.0	50.0
n-Heptane	Lin1		0.1827		0.00874	0.0100	-12.6	50.0
Trichloroethene	Ave	0.2523	0.2514		0.00996	0.0100	-0.4	50.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-159290/2 Calibration Date: 12/03/2014 08:34  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 11:29  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 13:21  
 Lab File ID: UXM0014.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3585	0.3204		0.00894	0.0100	-10.6	50.0
1,2-Dichloropropane	Ave	0.2572	0.2767		0.0108	0.0100	7.6	20.0
Dibromomethane	Ave	0.1251	0.1287		0.0103	0.0100	2.8	50.0
1,4-Dioxane	Ave	0.0015	0.0015		0.204	0.200	2.0	50.0
Bromodichloromethane	Ave	0.2981	0.3087		0.0104	0.0100	3.6	50.0
2-Chloroethyl vinyl ether	Ave	0.1231	0.1288		0.0209	0.0200	4.6	50.0
cis-1,3-Dichloropropene	Ave	0.3313	0.3394		0.0102	0.0100	2.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1786	0.1803		0.0202	0.0200	1.0	50.0
Toluene	Ave	1.418	1.413		0.00997	0.0100	-0.3	20.0
trans-1,3-Dichloropropene	Ave	0.3818	0.3678		0.00963	0.0100	-3.7	50.0
Ethyl methacrylate	Ave	0.2915	0.2948		0.0101	0.0100	1.1	50.0
1,1,2-Trichloroethane	Ave	0.2464	0.2375		0.00964	0.0100	-3.6	50.0
1,3-Dichloropropane	Ave	0.4327	0.4531		0.0105	0.0100	4.7	50.0
Tetrachloroethene	Ave	0.2623	0.2649		0.0101	0.0100	1.0	50.0
2-Hexanone	Ave	0.1642	0.1663		0.0202	0.0200	1.2	50.0
Dibromochloromethane	Ave	0.2712	0.2819		0.0104	0.0100	3.9	50.0
Ethylene Dibromide	Ave	0.2445	0.2431		0.00994	0.0100	-0.6	50.0
Chlorobenzene	Ave	0.8908	0.8879	0.3000	0.00997	0.0100	-0.3	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3123	0.3132		0.0100	0.0100	0.3	50.0
Ethylbenzene	Ave	0.4735	0.4932		0.0104	0.0100	4.2	20.0
m-Xylene & p-Xylene	Ave	0.5865	0.5895		0.0101	0.0100	0.5	50.0
o-Xylene	Ave	0.5920	0.5948		0.0100	0.0100	0.5	50.0
Styrene	Ave	0.9088	0.9410		0.0104	0.0100	3.5	50.0
Bromoform	Ave	0.1740	0.1602	0.1000	0.00921	0.0100	-7.9	50.0
Isopropylbenzene	Ave	1.461	1.436		0.00982	0.0100	-1.8	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5423	0.5295	0.3000	0.00976	0.0100	-2.4	50.0
Bromobenzene	Ave	0.6658	0.6994		0.0105	0.0100	5.0	50.0
1,2,3-Trichloropropane	Ave	0.1812	0.1653		0.00912	0.0100	-8.8	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1730	0.1368		0.00791	0.0100	-20.9	50.0
N-Propylbenzene	Ave	0.7105	0.7034		0.00990	0.0100	-1.0	50.0
2-Chlorotoluene	Ave	0.6237	0.6228		0.00999	0.0100	-0.1	50.0
1,3,5-Trimethylbenzene	Ave	2.118	2.122		0.0100	0.0100	0.2	50.0
4-Chlorotoluene	Ave	0.6455	0.6630		0.0103	0.0100	2.7	50.0
tert-Butylbenzene	Ave	1.780	1.759		0.00989	0.0100	-1.1	50.0
1,2,4-Trimethylbenzene	Ave	2.250	2.267		0.0101	0.0100	0.8	50.0
sec-Butylbenzene	Ave	2.487	2.397		0.00964	0.0100	-3.6	50.0
1,3-Dichlorobenzene	Ave	1.285	1.303		0.0101	0.0100	1.4	50.0
4-Isopropyltoluene	Ave	2.159	2.153		0.00997	0.0100	-0.3	50.0
1,4-Dichlorobenzene	Ave	1.330	1.330		0.0100	0.0100	0.0	50.0
n-Butylbenzene	Ave	1.810	1.771		0.00979	0.0100	-2.1	50.0
1,2-Dichlorobenzene	Ave	1.248	1.272		0.0102	0.0100	1.9	50.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-159290/2 Calibration Date: 12/03/2014 08:34  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 11:29  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 13:21  
 Lab File ID: UXM0014.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1025	0.0988		0.00964	0.0100	-3.6	50.0
1,2,4-Trichlorobenzene	Ave	0.7046	0.7170		0.0102	0.0100	1.8	50.0
Hexachlorobutadiene	Ave	0.3308	0.3014		0.00911	0.0100	-8.9	50.0
Naphthalene	Ave	1.600	1.511		0.00944	0.0100	-5.6	50.0
1,2,3-Trichlorobenzene	Ave	0.6297	0.6037		0.00959	0.0100	-4.1	50.0
Dibromofluoromethane (Surr)	Ave	0.2184	0.2174		0.0113	0.0114	-0.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2722	0.2789		0.0117	0.0114	2.5	50.0
Toluene-d8 (Surr)	Ave	1.173	1.178		0.0114	0.0114	0.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4208	0.4268		0.0116	0.0114	1.4	50.0

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0014.D  
 Lims ID: CCVIS L4 8260  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 03-Dec-2014 08:34:30 ALS Bottle#: 1 Worklist Smp#: 2  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038119-002  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub29  
 Method: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 13:25:24 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: quayler

Date: 03-Dec-2014 12:17:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1404012	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	88	1024329	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	575742	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.006	5.006	0.000	93	347924	11.4	11.3	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	446380	11.4	11.7	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	94	1375355	11.4	11.4	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	498363	11.4	11.6	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	399831	10.0	10.4	
10 Chloromethane	50	1.769	1.769	0.000	98	530016	10.0	11.8	
11 Vinyl chloride	62	1.888	1.888	0.000	97	492340	10.0	10.5	
12 Butadiene	54	1.923	1.923	0.000	0	515864	10.0	10.4	
13 Bromomethane	94	2.220	2.220	0.000	92	167171	10.0	10.1	
14 Chloroethane	64	2.326	2.326	0.000	98	236554	10.0	10.1	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	98	448962	10.0	10.3	
16 Trichlorofluoromethane	101	2.575	2.575	0.000	98	385267	10.0	9.62	
17 Ethyl ether	59	2.836	2.836	0.000	93	324050	10.0	10.6	
18 Acrolein	56	2.943	2.943	0.000	97	187742	50.0	90.1	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	92	312042	10.0	9.84	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	91	253021	10.0	9.36	
21 Acetone	43	3.085	3.085	0.000	98	201623	20.0	20.0	
23 Iodomethane	142	3.192	3.192	0.000	100	479939	10.0	10.0	
24 Carbon disulfide	76	3.263	3.263	0.000	100	970381	10.0	9.34	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	86	197682	10.0	9.51	
27 Methyl acetate	43	3.394	3.394	0.000	98	1163022	50.0	52.6	
28 Methylene Chloride	84	3.489	3.489	0.000	99	351313	10.0	10.1	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	231727	100.0	104.0	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1168015	100.0	103.1	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	99	874750	10.0	9.73	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	75	347309	10.0	9.85	
33 Hexane	86	3.987	3.987	0.000	90	73647	10.0	8.88	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	97	739677	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	98	182962	9.60	11.2	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	86	389354	10.0	10.4	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	96	239785	20.0	18.8	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	90	432889	10.0	9.87	
45 Chlorobromomethane	128	4.805	4.805	0.000	94	171510	10.0	10.1	
46 Tetrahydrofuran	42	4.852	4.852	0.000	90	146358	20.0	18.1	
47 Chloroform	83	4.864	4.864	0.000	96	586585	10.0	10.2	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	96	481644	10.0	9.76	
49 Cyclohexane	56	5.101	5.101	0.000	94	675900	10.0	9.89	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	90	448202	10.0	10.2	
51 Carbon tetrachloride	117	5.196	5.196	0.000	94	453682	10.0	10.2	
52 Isobutyl alcohol	41	5.232	5.232	0.000	91	182673	250.0	276.9	
54 Benzene	78	5.362	5.362	0.000	97	1395568	10.0	10.0	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	61	536120	10.0	10.8	
56 n-Heptane	57	5.588	5.588	0.000	88	256534	10.0	8.74	
58 Trichloroethene	130	5.908	5.908	0.000	94	352923	10.0	9.96	
60 Methylcyclohexane	83	6.086	6.086	0.000	85	449795	10.0	8.94	
61 1,2-Dichloropropane	63	6.097	6.097	0.000	77	388447	10.0	10.8	
63 Dibromomethane	93	6.192	6.192	0.000	94	180685	10.0	10.3	
64 1,4-Dioxane	88	6.204	6.204	0.000	94	43281	200.0	204.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	433373	10.0	10.4	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	93	361535	20.0	20.9	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	90	476491	10.0	10.2	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	98	506366	20.0	20.2	
70 Toluene	91	7.022	7.022	0.000	96	1447533	10.0	9.97	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	97	376696	10.0	9.63	
72 Ethyl methacrylate	69	7.271	7.271	0.000	90	301991	10.0	10.1	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	95	243301	10.0	9.64	
75 Tetrachloroethene	164	7.520	7.520	0.000	95	271365	10.0	10.1	
74 1,3-Dichloropropane	76	7.520	7.520	0.000	93	464080	10.0	10.5	
76 2-Hexanone	43	7.580	7.580	0.000	97	340582	20.0	20.2	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	288712	10.0	10.4	
80 Ethylene Dibromide	107	7.852	7.852	0.000	99	249020	10.0	9.94	
82 Chlorobenzene	112	8.303	8.303	0.000	92	909506	10.0	9.97	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	94	320791	10.0	10.0	
84 Ethylbenzene	106	8.398	8.398	0.000	99	505187	10.0	10.4	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	603856	10.0	10.1	
86 o-Xylene	106	8.884	8.884	0.000	95	609268	10.0	10.0	
87 Styrene	104	8.896	8.896	0.000	92	963857	10.0	10.4	
88 Bromoform	173	9.074	9.074	0.000	96	164103	10.0	9.21	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	1470449	10.0	9.82	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	304842	10.0	9.76	
93 Bromobenzene	156	9.536	9.536	0.000	94	402645	10.0	10.5	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	88	95187	10.0	9.12	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	72	78764	10.0	7.91	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	404970	10.0	9.90	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	358570	10.0	9.99	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	1221475	10.0	10.0	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	381720	10.0	10.3	
102 tert-Butylbenzene	119	10.129	10.129	0.000	93	1013010	10.0	9.89	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	1305360	10.0	10.1	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	1379925	10.0	9.64	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.449	10.449	0.000	99	749967	10.0	10.1	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	1239707	10.0	9.97	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	93	765950	10.0	10.0	
111 n-Butylbenzene	91	10.888	10.888	0.000	98	1019546	10.0	9.79	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	97	732072	10.0	10.2	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	82	56879	10.0	9.64	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	95	412781	10.0	10.2	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	97	173517	10.0	9.11	
117 Naphthalene	128	12.750	12.750	0.000	97	869721	10.0	9.44	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	347544	10.0	9.59	
S 131 1,2-Dichloroethene, Total	96				0		20.0	20.3	
S 132 1,3-Dichloropropene, Total	75				0		20.0	19.9	
S 133 Xylenes, Total	106				0		20.0	20.1	
S 134 Trihalomethanes, Total	1				0		40.0	40.1	

**Reagents:**

VMRPRIMW_00099	Amount Added: 8.00	Units: uL	
VMRGAS_00080	Amount Added: 8.00	Units: uL	
VMAROLISTDW_00076	Amount Added: 8.00	Units: uL	
VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00061	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00035	Amount Added: 0.00	Units:	Run Reagent

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0014.D

Injection Date: 03-Dec-2014 08:34:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: CCVIS L4 8260

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

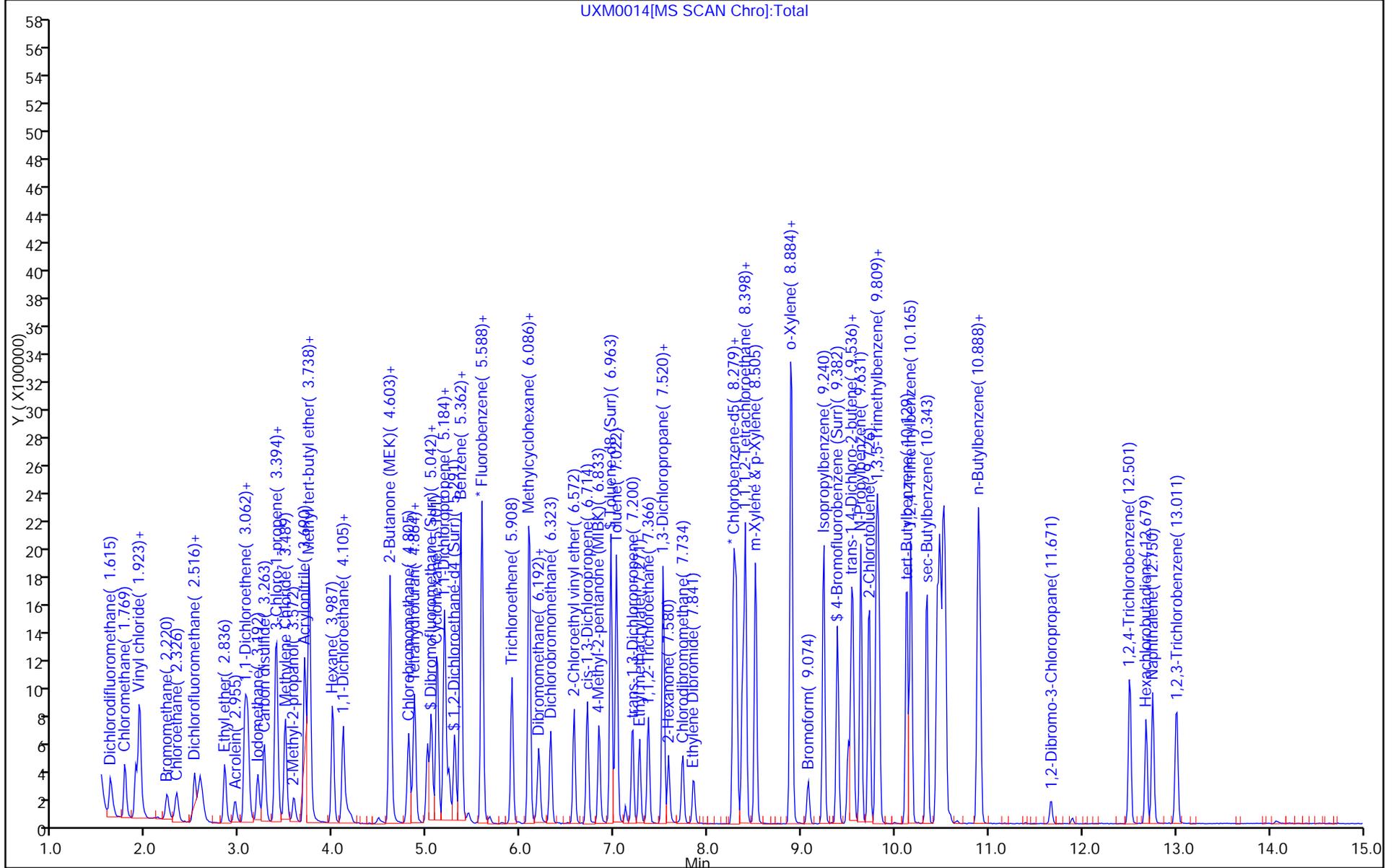
ALS Bottle#: 1

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 240-159290/3 Calibration Date: 12/03/2014 08:57  
 Instrument ID: A3UX16 Calib Start Date: 11/28/2014 14:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/28/2014 16:16  
 Lab File ID: UXM0015.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0223	0.0239		0.107	0.100	7.3	50.0
Isopropyl ether	Ave	0.2224	0.2280		0.0103	0.0100	2.5	50.0
Chloroprene	Ave	0.5020	0.5234		0.0104	0.0100	4.3	50.0
Tert-butyl ethyl ether	Ave	0.8637	0.9136		0.0106	0.0100	5.8	50.0
Propionitrile	Ave	0.0276	0.0283		0.103	0.100	2.7	50.0
Ethyl acetate	Ave	0.0569	0.0539		0.0190	0.0200	-5.2	50.0
Methacrylonitrile	Ave	0.1251	0.1307		0.105	0.100	4.5	50.0
Tert-amyl methyl ether	Ave	0.6392	0.6401		0.0100	0.0100	0.1	50.0
n-Butanol	Ave	0.0041	0.0045		0.271	0.250	8.5	50.0
Ethyl acrylate	Ave	0.2456	0.2404		0.00979	0.0100	-2.1	50.0
Methyl methacrylate	Ave	0.1743	0.1721		0.0197	0.0200	-1.3	50.0
2-Nitropropane	Ave	0.0526	0.0507		0.0193	0.0200	-3.5	50.0
1-Chlorohexane	Ave	0.4011	0.3610		0.00900	0.0100	-10.0	50.0
Cyclohexanone	Ave	0.0141	0.0136		0.0965	0.100	-3.5	50.0
Pentachloroethane	Ave	0.2067	0.2069		0.0200	0.0200	0.0	50.0
1,2,3-Trimethylbenzene	Ave	2.422	2.340		0.00966	0.0100	-3.4	50.0
Benzyl chloride	Lin1		0.1590		0.00730	0.0100	-27.0	50.0
1,3,5-Trichlorobenzene	Ave	0.8451	0.8304		0.00983	0.0100	-1.7	50.0
2-Methylnaphthalene	Ave	0.7814	0.6972		0.0178	0.0200	-10.8	50.0

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0015.D  
 Lims ID: CCV A9 L4  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 03-Dec-2014 08:57:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038119-003  
 Operator ID: 1904 Instrument ID: A3UX16  
 Sublist: chrom-8260\_16\*sub50  
 Method: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 13:25:25 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK012

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	98	1334683	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	88	985785	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	97	539431	10.0	10.0	
25 Acetonitrile	41	3.334	3.334	0.000	99	318674	100.0	107.3	
36 Isopropyl ether	87	4.176	4.176	0.000	93	304350	10.0	10.3	
37 2-Chloro-1,3-butadiene	53	4.188	4.188	0.000	94	698576	10.0	10.4	
38 Tert-butyl ethyl ether	59	4.485	4.485	0.000	100	1219367	10.0	10.6	
42 Propionitrile	54	4.651	4.651	0.000	99	377817	100.0	102.7	
43 Ethyl acetate	43	4.663	4.663	0.000	99	143978	20.0	19.0	
44 Methacrylonitrile	41	4.781	4.781	0.000	94	1744380	100.0	104.5	
55 Tert-amyl methyl ether	73	5.445	5.445	0.000	96	854344	10.0	10.0	
57 n-Butanol	56	5.801	5.801	0.000	86	148735	250.0	271.2	
59 Ethyl acrylate	55	5.967	5.967	0.000	98	320909	10.0	9.79	
62 Methyl methacrylate	41	6.169	6.169	0.000	91	459438	20.0	19.7	
66 2-Nitropropane	41	6.501	6.501	0.000	99	135437	20.0	19.3	
77 n-Butyl acetate	43	7.698	7.698	0.000	97	149652	10.0	10.4	
81 1-Chlorohexane	91	8.268	8.268	0.000	85	355835	10.0	9.00	
91 Cyclohexanone	55	9.311	9.330	-0.019	95	73355	100.0	96.5	
103 Pentachloroethane	167	10.141	10.141	0.000	0	407902	20.0	20.0	
109 1,2,3-Trimethylbenzene	105	10.592	10.592	0.000	98	1262201	10.0	9.66	
110 Benzyl chloride	126	10.663	10.663	0.000	0	85782	10.0	7.30	
114 1,3,5-Trichlorobenzene	180	11.896	11.915	-0.019	96	447939	10.0	9.83	
119 2-Methylnaphthalene	142	14.066	14.066	0.000	92	752150	20.0	17.8	

**Reagents:**

VM50IS\_00045 Amount Added: 1.00 Units: uL  
 VMRA9W\_00084 Amount Added: 8.00 Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0015.D

Injection Date: 03-Dec-2014 08:57:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: CCV A9 L4

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

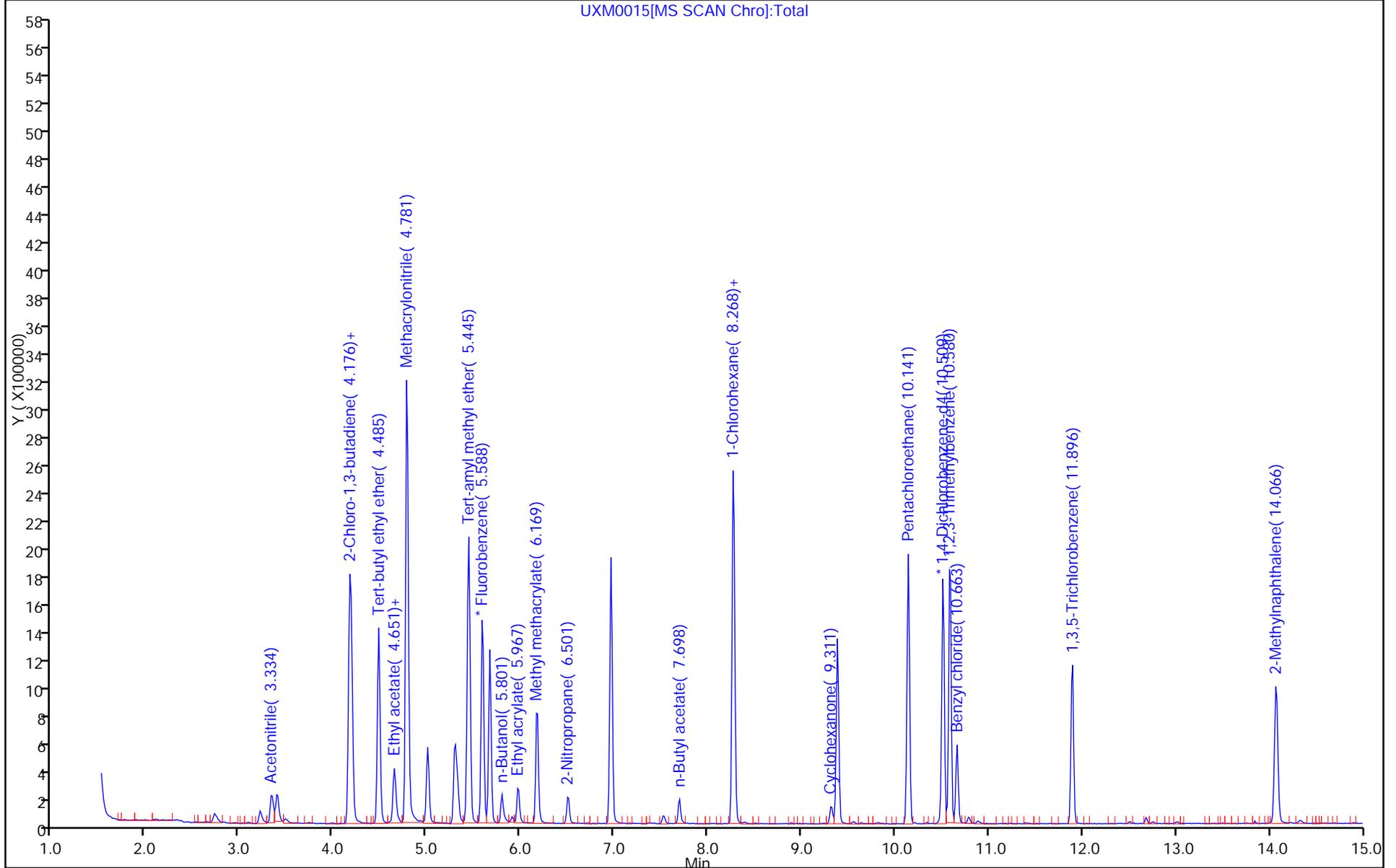
ALS Bottle#: 2

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\BFB4131.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 28-Nov-2014 10:53:30 ALS Bottle#: 29 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: 240-0037991-001  
 Operator ID: Instrument ID: A3UX16  
 Method: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 08:04:09 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	3.775	3.775	0.000	0	472488	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

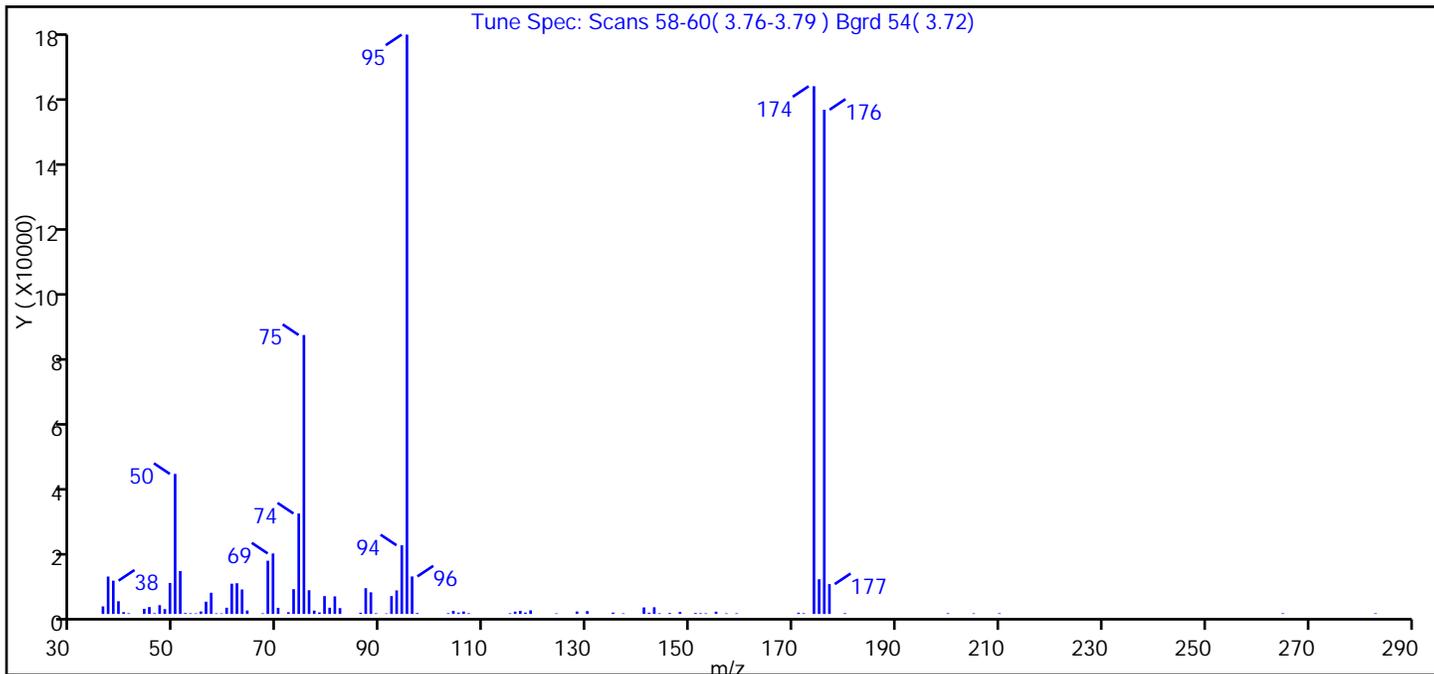
**Reagents:**

vmbfb\_00012 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\BFB4131.D  
 Injection Date: 28-Nov-2014 10:53:30 Instrument ID: A3UX16  
 Lims ID: BFB  
 Client ID:  
 Operator ID: ALS Bottle#: 29 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: 8260\_16 Limit Group: MSV 8260B ICAL  
 Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.2
75	30 to 60% of m/z 95	48.2
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	91.1
175	5 to 9% of m/z 174	6.0 (6.6)
176	Greater than 95% but less than 101% of m/z 174	87.0 (95.5)
177	5 to 9% of m/z 176	5.2 (5.9)

Data File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\BFB4131.D\8260\_16.rsl\spectra.d

Injection Date: 28-Nov-2014 10:53:30

Spectrum: Tune Spec: Scans 58-60( 3.76-3.79 ) Bgrd 54( 3.72)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2304	61.00	9228	91.00	148	142.00	380
37.00	11408	62.00	9366	92.00	5444	143.00	2040
38.00	10158	63.00	7459	93.00	7177	144.00	206
39.00	3884	64.00	1042	94.00	20944	146.00	282
40.00	550	67.00	192	95.00	176640	148.00	617
41.00	212	68.00	16231	96.00	11439	151.00	270
44.00	1565	69.00	18448	97.00	269	152.00	217
45.00	2108	70.00	1870	103.00	218	153.00	188
46.00	226	72.00	523	104.00	954	155.00	703
47.00	2681	73.00	7567	105.00	408	157.00	175
48.00	1484	74.00	30624	106.00	759	159.00	189
49.00	9451	75.00	85056	107.00	221	171.00	373
50.00	42696	76.00	7233	115.00	203	172.00	220
51.00	13094	77.00	1038	116.00	718	174.00	160896
52.00	275	78.00	460	117.00	925	175.00	10583
53.00	202	79.00	5440	118.00	411	176.00	153728
54.00	173	80.00	1905	119.00	1093	177.00	9100
55.00	760	81.00	5351	124.00	169	180.00	221
56.00	3748	82.00	1784	128.00	757	200.00	221
57.00	6459	86.00	373	130.00	877	205.00	171
58.00	185	87.00	7852	135.00	410	210.00	211
59.00	167	88.00	6596	137.00	175	265.00	206
60.00	1901	89.00	202	141.00	1992	283.00	197

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\BFB4135.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 03-Dec-2014 08:01:30 ALS Bottle#: 28 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038119-001  
 Operator ID: Instrument ID: A3UX16  
 Method: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 13:25:22 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK012

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	3.775	3.775	0.000	0	483249	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

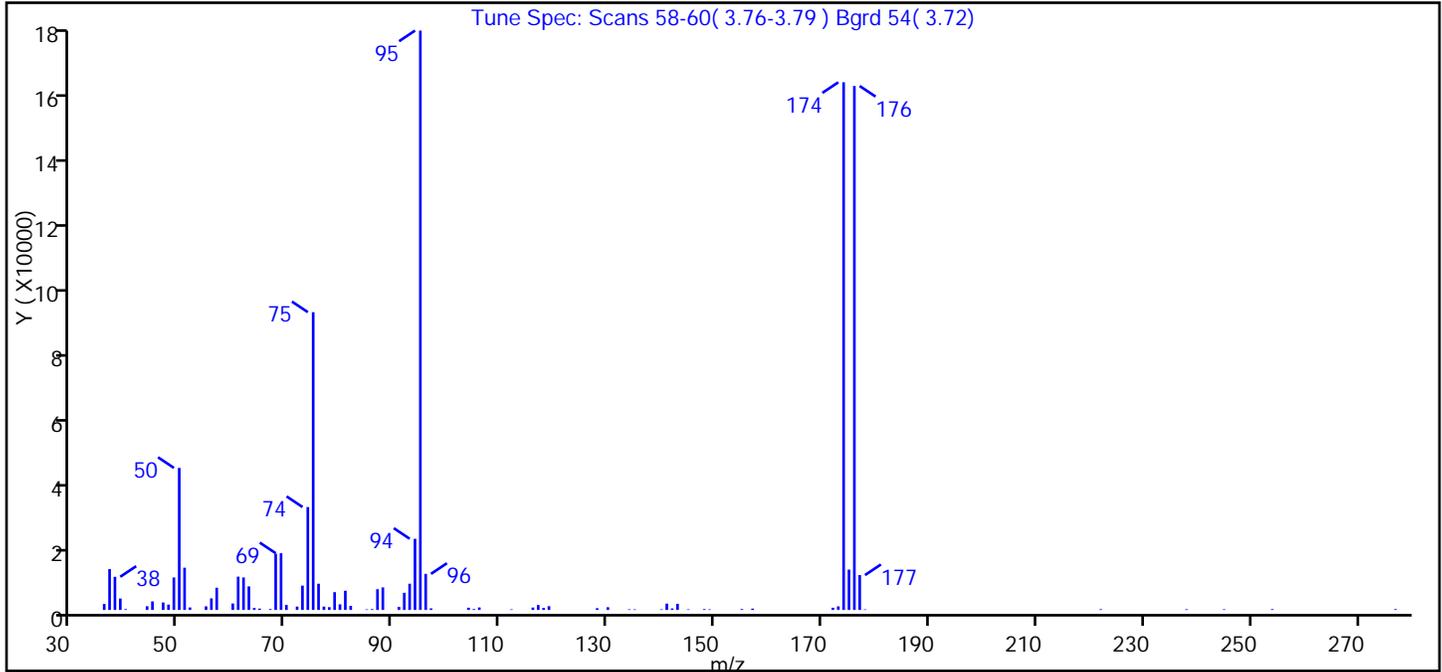
**Reagents:**

vmbfb\_00012 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\BFB4135.D  
 Injection Date: 03-Dec-2014 08:01:30 Instrument ID: A3UX16  
 Lims ID: BFB  
 Client ID:  
 Operator ID: ALS Bottle#: 28 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: 8260\_16 Limit Group: MSV 8260B ICAL  
 Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.5
75	30 to 60% of m/z 95	51.4
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	91.1
175	5 to 9% of m/z 174	7.0 (7.6)
176	Greater than 95% but less than 101% of m/z 174	90.4 (99.3)
177	5 to 9% of m/z 176	6.0 (6.7)

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\BFB4135.D\8260\_16.rsl\spectra.d

Injection Date: 03-Dec-2014 08:01:30

Spectrum: Tune Spec: Scans 58-60( 3.76-3.79 ) Bgrd 54( 3.72)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1855	65.00	419	92.00	5310	143.00	1897
37.00	12651	67.00	270	93.00	8125	145.00	176
38.00	10267	68.00	17432	94.00	22040	148.00	251
39.00	3548	69.00	17560	95.00	179392	149.00	182
40.00	255	70.00	1544	96.00	11179	155.00	270
44.00	1146	72.00	1044	97.00	488	157.00	414
45.00	2644	73.00	7538	104.00	695	172.00	686
47.00	2316	74.00	31872	105.00	271	173.00	1116
48.00	1658	75.00	92200	106.00	776	174.00	163392
49.00	10066	76.00	8132	112.00	181	175.00	12497
50.00	43984	77.00	1048	116.00	748	176.00	162240
51.00	13087	78.00	866	117.00	1528	177.00	10805
52.00	774	79.00	5514	118.00	615	178.00	175
55.00	1119	80.00	1750	119.00	1170	222.00	218
56.00	3593	81.00	5959	128.00	533	238.00	214
57.00	6881	82.00	1266	130.00	843	245.00	196
60.00	2002	85.00	176	134.00	188	254.00	246
61.00	10319	86.00	257	135.00	175	277.00	254
62.00	10072	87.00	6427	140.00	184		
63.00	7302	88.00	6988	141.00	1958		
64.00	623	91.00	949	142.00	460		

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\BFB389.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 28-Nov-2014 08:38:30 ALS Bottle#: 31 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info:  
 Operator ID: 1904 Instrument ID: A3UX17  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 28-Nov-2014 14:50:51 Calib Date: 28-Nov-2014 11:36:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\UXR7662.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK028

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	3.881	3.881	0.000	0	455420	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

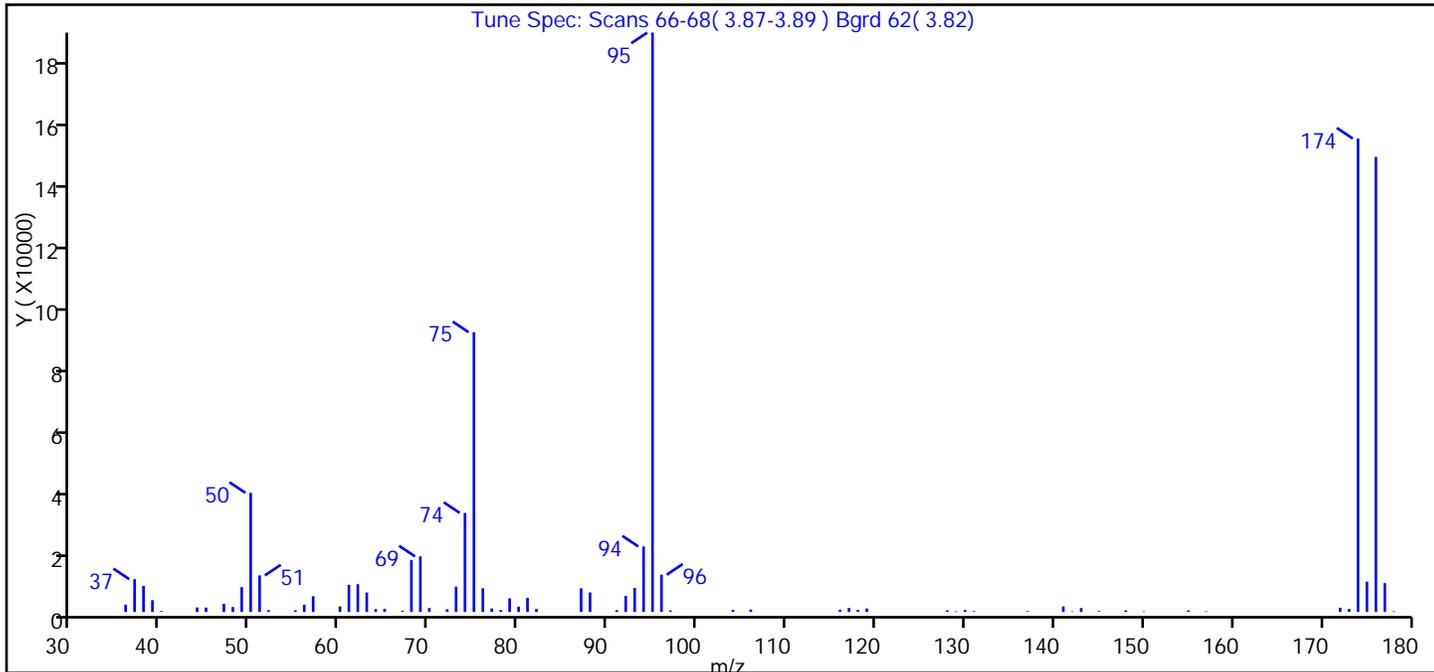
**Reagents:**

vmbfb\_00012 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\BFB389.D  
 Injection Date: 28-Nov-2014 08:38:30 Instrument ID: A3UX17  
 Lims ID: BFB  
 Client ID:  
 Operator ID: 1904 ALS Bottle#: 31 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: 8260\_17 Limit Group: MSV 8260B ICAL  
 Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.6
75	30 to 60% of m/z 95	48.3
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	81.7
175	5 to 9% of m/z 174	5.2 (6.4)
176	Greater than 95% but less than 101% of m/z 174	78.5 (96.1)
177	5 to 9% of m/z 176	5.0 (6.3)

Data File: \\NCCHROM\ChromData\A3UX17\20141128-37983.b\BFB389.D\8260\_17.rslt\spectra.d  
Injection Date: 28-Nov-2014 08:38:30  
Spectrum: Tune Spec: Scans 66-68( 3.87-3.89 ) Bgrd 62( 3.82)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2389	62.00	9082	82.00	963	130.00	678
37.00	10730	63.00	6366	87.00	7727	131.00	237
38.00	8540	64.00	921	88.00	6388	137.00	245
39.00	3850	65.00	1041	91.00	596	141.00	1795
40.00	279	67.00	399	92.00	5263	142.00	189
44.00	1460	68.00	17040	93.00	7864	143.00	1283
45.00	1438	69.00	18192	94.00	21448	145.00	288
47.00	2672	70.00	1303	95.00	189760	148.00	514
48.00	1600	72.00	905	96.00	12213	150.00	172
49.00	8116	73.00	8315	97.00	504	155.00	512
50.00	39016	74.00	32440	104.00	697	157.00	180
51.00	11974	75.00	91624	106.00	791	172.00	1375
52.00	586	76.00	7748	116.00	750	173.00	1003
55.00	536	77.00	1128	117.00	1286	174.00	155072
56.00	2368	78.00	611	118.00	697	175.00	9928
57.00	5157	79.00	4473	119.00	1150	176.00	149056
60.00	1810	80.00	1732	128.00	520	177.00	9445
61.00	8907	81.00	4627	129.00	178	178.00	209

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\BFB390.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 28-Nov-2014 17:19:30 ALS Bottle#: 19 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038004-001  
 Operator ID: 1904 Instrument ID: A3UX17  
 Method: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\8260\_17.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 01-Dec-2014 09:48:27 Calib Date: 28-Nov-2014 19:56:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\UXR7680.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK051

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	3.881	3.881	0.000	0	448797	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

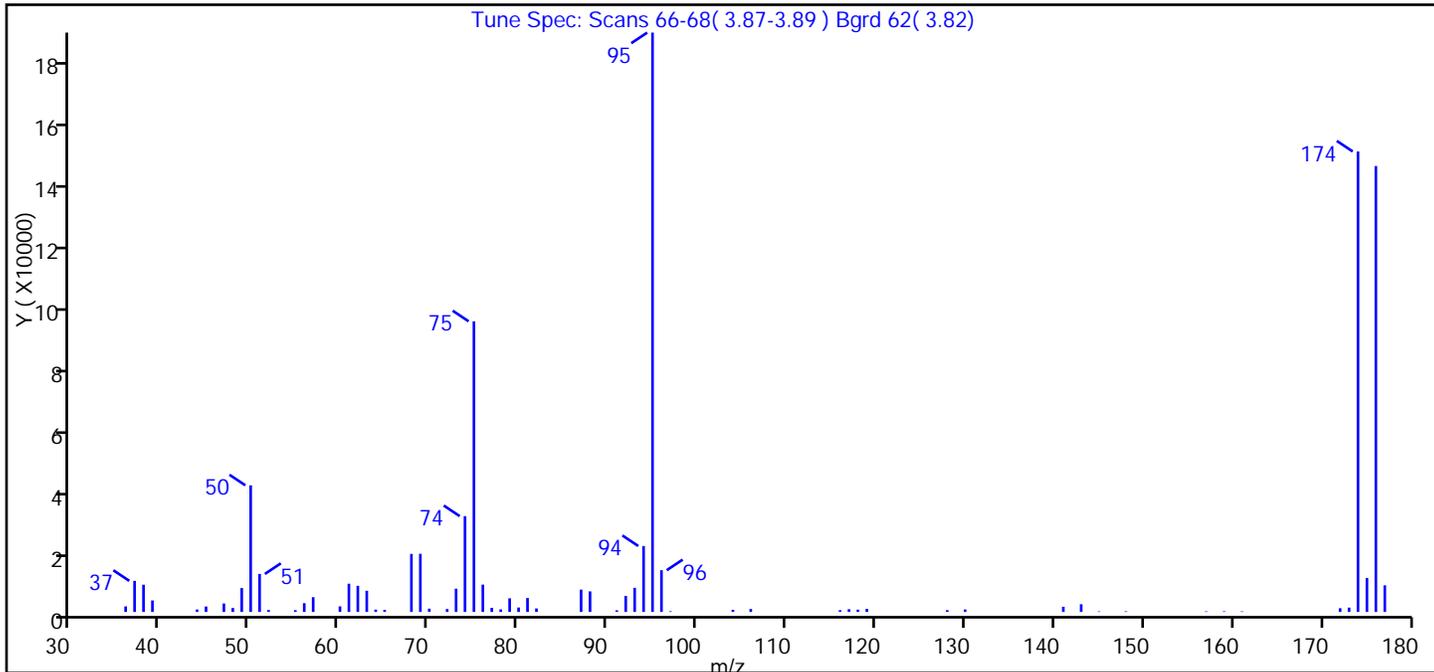
**Reagents:**

vmbfb\_00012 Amount Added: 1.00 Units: uL

TestAmerica Canton

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\BFB390.D  
 Injection Date: 28-Nov-2014 17:19:30 Instrument ID: A3UX17  
 Lims ID: BFB  
 Client ID:  
 Operator ID: 1904 ALS Bottle#: 19 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: 8260\_17 Limit Group: MSV 8260B ICAL  
 Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.9
75	30 to 60% of m/z 95	50.2
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	79.5
175	5 to 9% of m/z 174	5.9 (7.4)
176	Greater than 95% but less than 101% of m/z 174	77.0 (96.8)
177	5 to 9% of m/z 176	4.6 (6.0)

Data File: \\NCCHROM\ChromData\A3UX17\20141128-38004.b\BFB390.D\8260\_17.rslt\spectra.d

Injection Date: 28-Nov-2014 17:19:30

Spectrum: Tune Spec: Scans 66-68( 3.87-3.89 ) Bgrd 62( 3.82)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1811	62.00	8515	82.00	1146	130.00	813
37.00	10124	63.00	6897	87.00	7278	141.00	1696
38.00	8875	64.00	767	88.00	6700	143.00	2509
39.00	3740	65.00	661	91.00	531	145.00	175
44.00	801	68.00	18912	92.00	5229	148.00	199
45.00	1778	69.00	18944	93.00	7855	157.00	184
47.00	2753	70.00	1081	94.00	21464	159.00	205
48.00	1282	72.00	950	95.00	188672	161.00	170
49.00	7782	73.00	7587	96.00	13591	172.00	1216
50.00	41232	74.00	31200	97.00	223	173.00	1414
51.00	12378	75.00	94648	104.00	706	174.00	149952
52.00	623	76.00	8902	106.00	958	175.00	11064
55.00	578	77.00	1343	116.00	578	176.00	145216
56.00	2859	78.00	830	117.00	896	177.00	8670
57.00	4807	79.00	4448	118.00	743		
60.00	1819	80.00	1451	119.00	981		
61.00	9196	81.00	4548	128.00	572		

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-159290/6  
 Matrix: Water Lab File ID: UXM0018.D  
 Analysis Method: 8260B Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 10:04  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		10	3.4
75-05-8	Acetonitrile	ND		20	9.2
107-02-8	Acrolein	ND		20	1.4
107-13-1	Acrylonitrile	ND		20	6.3
71-43-2	Benzene	ND		1.0	0.24
75-27-4	Bromodichloromethane	ND		1.0	0.15
75-25-2	Bromoform	ND		1.0	0.56
74-83-9	Bromomethane	ND		1.0	0.63
78-93-3	2-Butanone	ND		10	4.1
75-15-0	Carbon disulfide	ND		1.0	0.28
56-23-5	Carbon tetrachloride	ND		1.0	0.17
108-90-7	Chlorobenzene	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.33
67-66-3	Chloroform	ND		1.0	0.21
74-87-3	Chloromethane	ND		1.0	0.44
126-99-8	Chloroprene	ND		2.0	0.26
107-05-1	3-Chloro-1-propene	ND		2.0	0.84
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
124-48-1	Dibromochloromethane	ND		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.82
74-95-3	Dibromomethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.50
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
75-35-4	1,1-Dichloroethene	ND		1.0	0.45
540-59-0	1,2-Dichloroethene, Total	ND		2.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.22
123-91-1	1,4-Dioxane	ND		50	40
100-41-4	Ethylbenzene	ND		1.0	0.23
106-93-4	Ethylene Dibromide	ND		1.0	0.19
97-63-2	Ethyl methacrylate	ND		1.0	0.44
591-78-6	2-Hexanone	ND		10	3.9
74-88-4	Iodomethane	ND		1.0	0.42
78-83-1	Isobutanol	ND		50	12
126-98-7	Methacrylonitrile	ND		2.0	0.70

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-159290/6  
 Matrix: Water Lab File ID: UXM0018.D  
 Analysis Method: 8260B Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 10:04  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-09-2	Methylene Chloride	0.369	J	1.0	0.28
80-62-6	Methyl methacrylate	ND		2.0	0.99
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	3.6
107-12-0	Propionitrile	ND		4.0	0.95
100-42-5	Styrene	ND		1.0	0.45
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.22
127-18-4	Tetrachloroethene	ND		1.0	0.20
108-88-3	Toluene	ND		1.0	0.22
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	0.31
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.56
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.22
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.15
75-69-4	Trichlorofluoromethane	ND		1.0	0.49
96-18-4	1,2,3-Trichloropropane	ND		1.0	0.30
108-05-4	Vinyl acetate	ND		2.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.29
1330-20-7	Xylenes, Total	ND		2.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		66-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		63-129
2037-26-5	Toluene-d8 (Surr)	94		74-120

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0018.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 03-Dec-2014 10:04:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038119-006  
 Operator ID: 1904 Instrument ID: A3UX16  
 Method: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 13:25:25 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: quayler

Date: 03-Dec-2014 11:04:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1327924	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	88	989949	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	96	549399	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.007	5.006	0.001	93	320745	11.4	11.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.303	5.291	0.012	0	419323	11.4	11.6	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	94	1247301	11.4	10.7	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	90	467727	11.4	11.2	
9 Dichlorodifluoromethane	85		1.615					ND	
10 Chloromethane	50		1.769					ND	
11 Vinyl chloride	62		1.888					ND	
12 Butadiene	54		1.923					ND	
13 Bromomethane	94		2.220					ND	
14 Chloroethane	64		2.326					ND	
15 Dichlorofluoromethane	67		2.516					ND	
16 Trichlorofluoromethane	101		2.575					ND	
17 Ethyl ether	59		2.836					ND	
18 Acrolein	56		2.943					ND	
19 1,1-Dichloroethene	96		3.050					ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.085					ND	
21 Acetone	43	3.097	3.085	0.012	98	12880		1.35	
22 Methylal	45		3.093					ND	
23 Iodomethane	142		3.192					ND	
24 Carbon disulfide	76		3.263					ND	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76		3.382					ND	
27 Methyl acetate	43		3.394					ND	
28 Methylene Chloride	84	3.489	3.489	0.000	95	12095		0.3688	
29 2-Methyl-2-propanol	59		3.572					ND	
30 Acrylonitrile	53		3.690					ND	
31 Methyl tert-butyl ether	73		3.738					ND	
32 trans-1,2-Dichloroethene	96		3.738					ND	
33 Hexane	86		3.987					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63		4.105					ND	
35 Vinyl acetate	43		4.141					ND	
36 Isopropyl ether	87		4.176					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
39 cis-1,2-Dichloroethene	96		4.603					ND	
40 2-Butanone (MEK)	43		4.603					ND	
41 2,2-Dichloropropane	77		4.610					ND	
42 Propionitrile	54		4.651					ND	
43 Ethyl acetate	43		4.663					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128		4.805					ND	
46 Tetrahydrofuran	42	4.864	4.852	0.012	66	4457		0.5818	
47 Chloroform	83		4.864					ND	
48 1,1,1-Trichloroethane	97		5.042					ND	
49 Cyclohexane	56		5.101					ND	
50 1,1-Dichloropropene	75		5.184					ND	
51 Carbon tetrachloride	117		5.196					ND	
52 Isobutyl alcohol	41		5.232					ND	
54 Benzene	78		5.362					ND	
53 1,2-Dichloroethane	62		5.362					ND	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57		5.588					ND	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130		5.908					ND	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83		6.086					ND	
61 1,2-Dichloropropane	63		6.097					ND	
62 Methyl methacrylate	41		6.169					ND	
63 Dibromomethane	93		6.192					ND	
64 1,4-Dioxane	88		6.204					ND	
65 Dichlorobromomethane	83		6.323					ND	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63		6.572					ND	
68 cis-1,3-Dichloropropene	75		6.714					ND	
69 4-Methyl-2-pentanone (MIBK)	43		6.833					ND	
70 Toluene	91		7.022					ND	
71 trans-1,3-Dichloropropene	75		7.200					ND	
72 Ethyl methacrylate	69		7.271					ND	
73 1,1,2-Trichloroethane	97		7.366					ND	
75 Tetrachloroethene	164		7.520					ND	
74 1,3-Dichloropropane	76		7.520					ND	
76 2-Hexanone	43		7.580					ND	
77 n-Butyl acetate	43		7.698					ND	
78 Chlorodibromomethane	129		7.734					ND	
79 Tetrahydrothiophene	60		7.753					ND	
80 Ethylene Dibromide	107		7.852					ND	
81 1-Chlorohexane	91		8.268					ND	
82 Chlorobenzene	112		8.303					ND	
83 1,1,1,2-Tetrachloroethane	131		8.374					ND	
84 Ethylbenzene	106		8.398					ND	
85 m-Xylene & p-Xylene	106		8.505					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 o-Xylene	106		8.884					ND	
87 Styrene	104		8.896					ND	
88 Bromoform	173		9.074					ND	
89 Isopropylbenzene	105		9.240					ND	
90 1,4-Dichlorobutane	55		9.330					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83		9.501					ND	
93 Bromobenzene	156		9.536					ND	
95 1,2,3-Trichloropropane	110		9.548					ND	
94 trans-1,4-Dichloro-2-buten	53		9.560					ND	
96 N-Propylbenzene	120		9.631					ND	
97 2-Chlorotoluene	126		9.726					ND	
98 3-Ethyltoluene	105		9.733					ND	
99 1,3,5-Trimethylbenzene	105		9.797					ND	
100 4-Chlorotoluene	126		9.821					ND	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119		10.129					ND	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105		10.165					ND	
105 sec-Butylbenzene	105		10.343					ND	
106 1,3-Dichlorobenzene	146		10.449					ND	
107 4-Isopropyltoluene	119		10.473					ND	
108 1,4-Dichlorobenzene	146		10.533					ND	
109 1,2,3-Trimethylbenzene	105		10.592					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91		10.888					ND	
112 1,2-Dichlorobenzene	146		10.900					ND	
113 1,2-Dibromo-3-Chloropropan	157		11.671					ND	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180		12.513					ND	
116 Hexachlorobutadiene	225	12.691	12.679	0.012	61	3382		0.1861	
117 Naphthalene	128		12.750					ND	
118 1,2,3-Trichlorobenzene	180		13.011					ND	
119 2-Methylnaphthalene	142		14.066					ND	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
129 Isobutylene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96		1.140					ND	
S 132 1,3-Dichloropropene, Total	75		6.760					ND	
S 133 Xylenes, Total	106		16.530					ND	
S 134 Trihalomethanes, Total	1		0.000					ND	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

Reagents:

VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00061	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00035	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0018.D

Injection Date: 03-Dec-2014 10:04:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

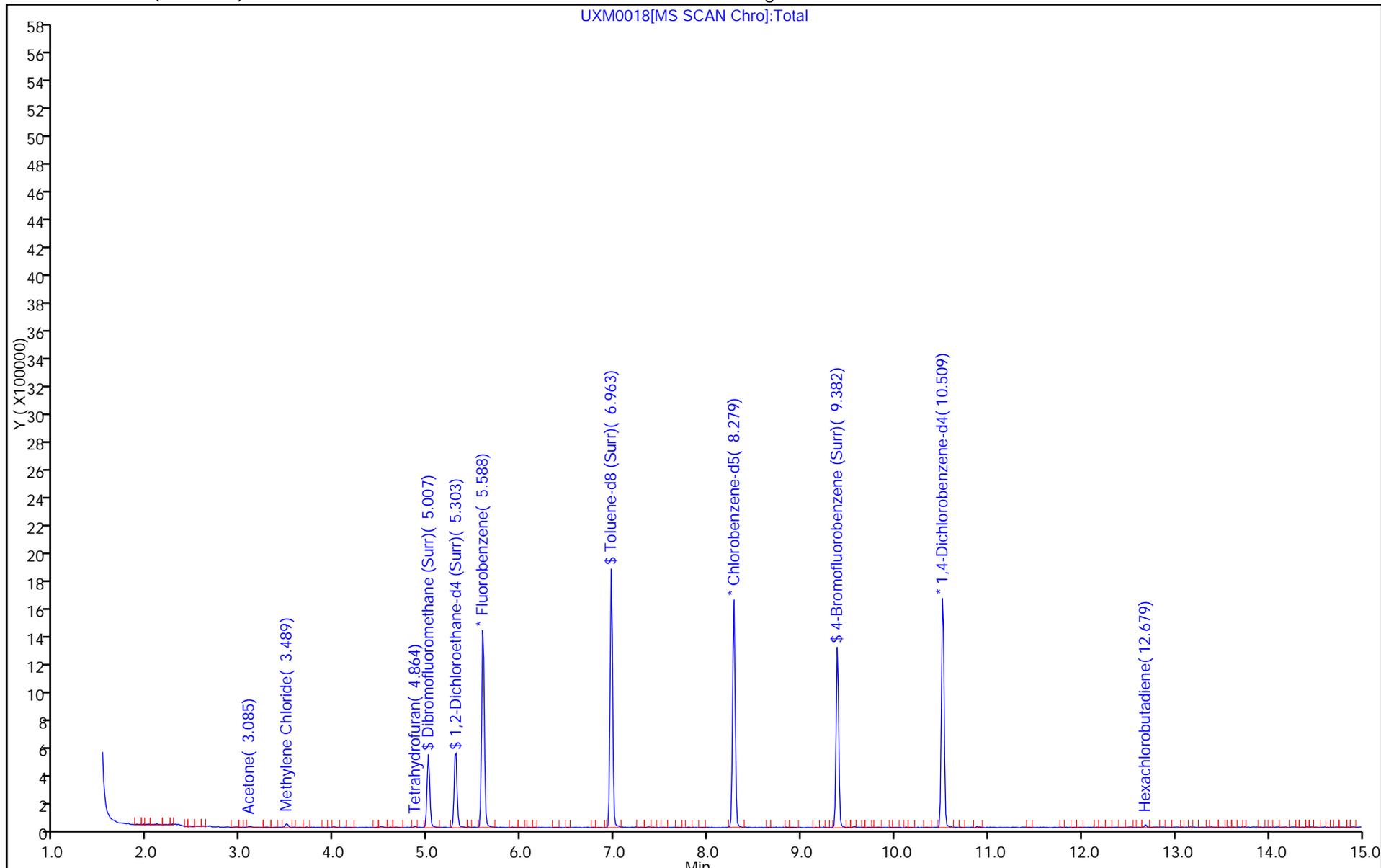
ALS Bottle#: 5

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton

Data File: \\ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0018.D

Injection Date: 03-Dec-2014 10:04:30

Instrument ID: A3UX16

Lims ID: MB

Client ID:

Operator ID: 1904

ALS Bottle#: 5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

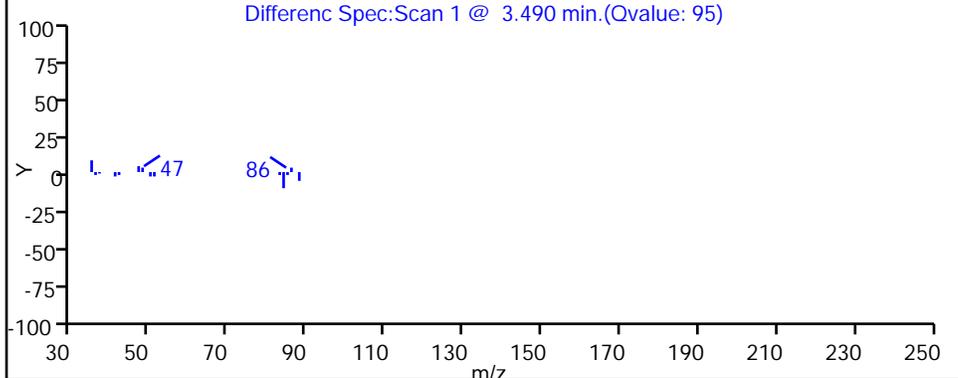
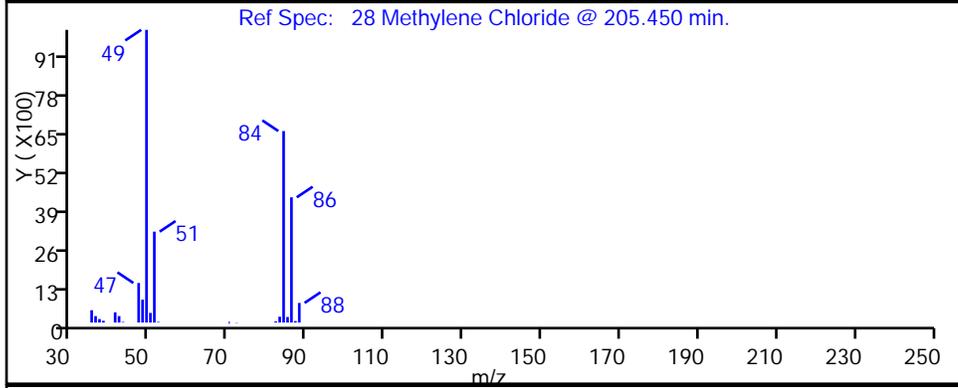
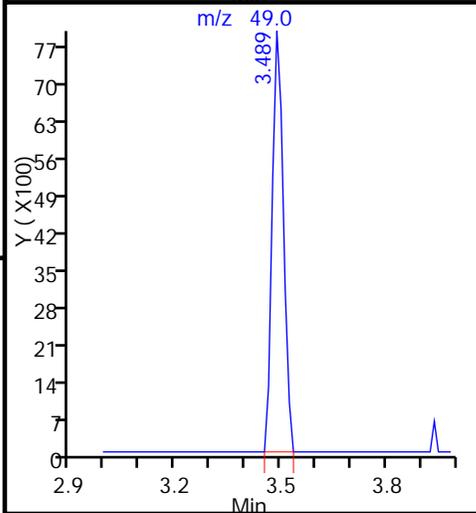
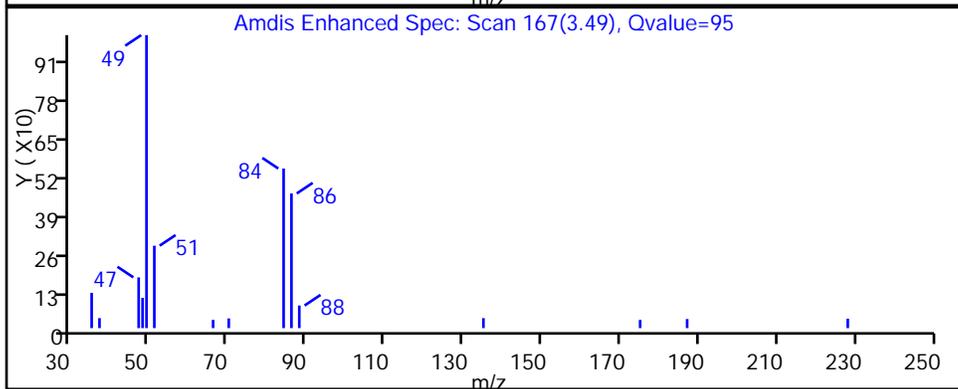
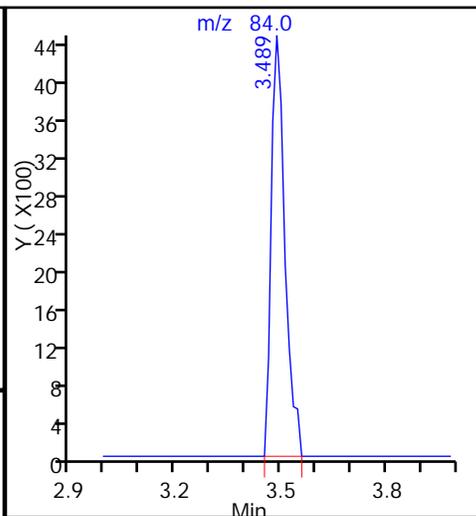
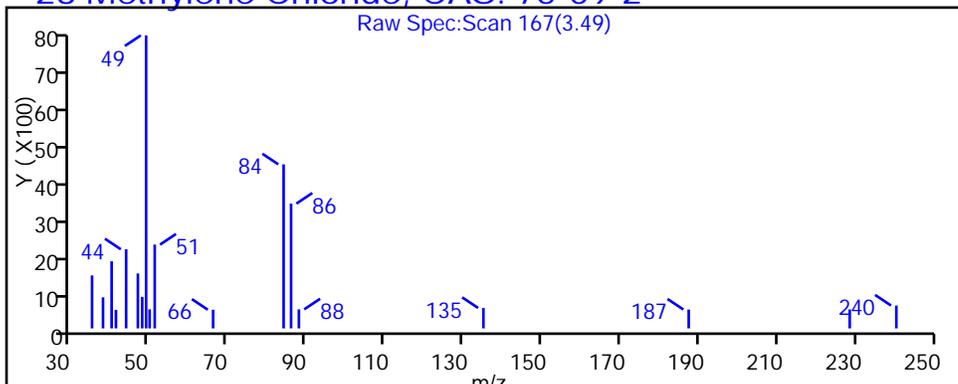
Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 28 Methylene Chloride, CAS: 75-09-2



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-159290/4  
 Matrix: Water Lab File ID: UXM0016.D  
 Analysis Method: 8260B Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 09:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	18.1		10	3.4
107-02-8	Acrolein	96.7		20	1.4
107-13-1	Acrylonitrile	105		20	6.3
71-43-2	Benzene	10.4		1.0	0.24
75-27-4	Bromodichloromethane	10.3		1.0	0.15
75-25-2	Bromoform	9.61		1.0	0.56
74-83-9	Bromomethane	9.10		1.0	0.63
78-93-3	2-Butanone	18.7		10	4.1
75-15-0	Carbon disulfide	10.2		1.0	0.28
56-23-5	Carbon tetrachloride	10.7		1.0	0.17
108-90-7	Chlorobenzene	10.0		1.0	0.19
75-00-3	Chloroethane	9.36		1.0	0.33
67-66-3	Chloroform	10.8		1.0	0.21
74-87-3	Chloromethane	10.9		1.0	0.44
107-05-1	3-Chloro-1-propene	9.17		2.0	0.84
156-59-2	cis-1,2-Dichloroethene	10.5		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	10.4		1.0	0.46
124-48-1	Dibromochloromethane	9.86		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	8.55		2.0	0.82
74-95-3	Dibromomethane	10.3		1.0	0.17
75-71-8	Dichlorodifluoromethane	8.18		1.0	0.50
75-34-3	1,1-Dichloroethane	11.0		1.0	0.26
107-06-2	1,2-Dichloroethane	11.1		1.0	0.20
75-35-4	1,1-Dichloroethene	10.3		1.0	0.45
540-59-0	1,2-Dichloroethene, Total	21.2		2.0	0.20
78-87-5	1,2-Dichloropropane	10.7		1.0	0.22
123-91-1	1,4-Dioxane	209		50	40
100-41-4	Ethylbenzene	10.7		1.0	0.23
106-93-4	Ethylene Dibromide	10.3		1.0	0.19
97-63-2	Ethyl methacrylate	10.9		1.0	0.44
591-78-6	2-Hexanone	21.0		10	3.9
74-88-4	Iodomethane	11.3		1.0	0.42
78-83-1	Isobutanol	261		50	12
75-09-2	Methylene Chloride	10.8		1.0	0.28
108-10-1	4-Methyl-2-pentanone (MIBK)	20.0		10	3.6
100-42-5	Styrene	10.2		1.0	0.45

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-44867-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-159290/4  
 Matrix: Water Lab File ID: UXM0016.D  
 Analysis Method: 8260B Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 12/03/2014 09:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 159290 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.2		1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	9.09		1.0	0.22
127-18-4	Tetrachloroethene	10.5		1.0	0.20
108-88-3	Toluene	10.4		1.0	0.22
110-57-6	trans-1,4-Dichloro-2-butene	7.57		1.0	0.31
156-60-5	trans-1,2-Dichloroethene	10.7		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	10.6		1.0	0.56
71-55-6	1,1,1-Trichloroethane	10.5		1.0	0.22
79-00-5	1,1,2-Trichloroethane	9.98		1.0	0.17
79-01-6	Trichloroethene	10.3		1.0	0.15
75-69-4	Trichlorofluoromethane	10.3		1.0	0.49
96-18-4	1,2,3-Trichloropropane	9.24		1.0	0.30
108-05-4	Vinyl acetate	3.62		2.0	0.41
75-01-4	Vinyl chloride	10.6		1.0	0.29
1330-20-7	Xylenes, Total	21.1		2.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		66-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		63-129
2037-26-5	Toluene-d8 (Surr)	101		74-120

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0016.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 03-Dec-2014 09:19:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0038119-004  
 Operator ID: 1904 Instrument ID: A3UX16  
 Method: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\8260\_16.m  
 Limit Group: MSV 8260B ICAL  
 Last Update: 03-Dec-2014 13:25:25 Calib Date: 28-Nov-2014 16:16:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\Ncchrom\ChromData\A3UX16\20141128-37991.b\UXM9949.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK012

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1353953	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	88	981497	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	585325	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.006	5.006	0.000	93	340085	11.4	11.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	428497	11.4	11.6	
\$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1328052	11.4	11.5	
\$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	486444	11.4	11.8	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	97	304584	10.0	8.18	
10 Chloromethane	50	1.781	1.769	0.012	98	473266	10.0	10.9	
11 Vinyl chloride	62	1.888	1.888	0.000	97	477793	10.0	10.6	
12 Butadiene	54	1.935	1.923	0.012	0	489041	10.0	10.2	
13 Bromomethane	94	2.232	2.220	0.012	92	144781	10.0	9.10	
14 Chloroethane	64	2.326	2.326	0.000	99	210986	10.0	9.36	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	98	438627	10.0	10.5	
16 Trichlorofluoromethane	101	2.575	2.575	0.000	97	397417	10.0	10.3	
17 Ethyl ether	59	2.836	2.836	0.000	92	321175	10.0	10.9	
18 Acrolein	56	2.955	2.943	0.012	97	194402	50.0	96.7	
19 1,1-Dichloroethene	96	3.062	3.050	0.012	94	315216	10.0	10.3	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	95	254441	10.0	9.76	
21 Acetone	43	3.097	3.085	0.012	100	176508	20.0	18.1	
23 Iodomethane	142	3.192	3.192	0.000	98	523454	10.0	11.3	
24 Carbon disulfide	76	3.263	3.263	0.000	100	1020065	10.0	10.2	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	86	183796	10.0	9.17	
27 Methyl acetate	43	3.394	3.394	0.000	98	1115344	50.0	52.3	
28 Methylene Chloride	84	3.489	3.489	-0.001	99	360739	10.0	10.8	
29 2-Methyl-2-propanol	59	3.583	3.572	0.011	100	212741	100.0	99.0	
30 Acrylonitrile	53	3.702	3.690	0.012	100	1151024	100.0	105.3	
31 Methyl tert-butyl ether	73	3.749	3.738	0.011	99	884688	10.0	10.2	
32 trans-1,2-Dichloroethene	96	3.749	3.738	0.011	75	364209	10.0	10.7	
33 Hexane	86	3.998	3.987	0.011	90	74278	10.0	9.28	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	749617	10.0	11.0	
35 Vinyl acetate	43	4.141	4.141	0.000	98	56973	8.00	3.62	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	87	377261	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.603	4.603	0.000	44	230230	20.0	18.7	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	88	427094	10.0	10.1	
45 Chlorobromomethane	128	4.805	4.805	0.000	94	166427	10.0	10.2	
46 Tetrahydrofuran	42	4.852	4.852	0.000	88	145445	20.0	18.6	
47 Chloroform	83	4.876	4.864	0.012	96	600630	10.0	10.8	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	96	500956	10.0	10.5	
49 Cyclohexane	56	5.113	5.101	0.012	94	695283	10.0	10.5	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	88	459487	10.0	10.8	
51 Carbon tetrachloride	117	5.196	5.196	0.000	95	459282	10.0	10.7	
52 Isobutyl alcohol	41	5.232	5.232	0.000	95	166095	250.0	261.1	
54 Benzene	78	5.362	5.362	0.000	97	1404274	10.0	10.4	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	61	530484	10.0	11.1	
56 n-Heptane	57	5.587	5.588	-0.001	89	248102	10.0	8.77	
58 Trichloroethene	130	5.908	5.908	0.000	95	350974	10.0	10.3	
60 Methylcyclohexane	83	6.086	6.086	0.000	94	458084	10.0	9.44	
61 1,2-Dichloropropane	63	6.097	6.097	0.000	87	372736	10.0	10.7	
63 Dibromomethane	93	6.192	6.192	0.000	94	173831	10.0	10.3	
64 1,4-Dioxane	88	6.204	6.204	0.000	38	42755	200.0	209.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	415222	10.0	10.3	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	215082	12.0	12.9	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	89	465858	10.0	10.4	
69 4-Methyl-2-pentanone (MIBK)	43	6.833	6.833	0.000	96	483856	20.0	20.0	
70 Toluene	91	7.022	7.022	0.000	97	1447977	10.0	10.4	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	98	398266	10.0	10.6	
72 Ethyl methacrylate	69	7.271	7.271	0.000	90	311547	10.0	10.9	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	92	241411	10.0	9.98	
75 Tetrachloroethene	164	7.532	7.520	0.012	98	270387	10.0	10.5	
74 1,3-Dichloropropane	76	7.520	7.520	0.000	97	450006	10.0	10.6	
76 2-Hexanone	43	7.580	7.580	0.000	96	338540	20.0	21.0	
78 Chlorodibromomethane	129	7.734	7.734	0.000	92	262543	10.0	9.86	
80 Ethylene Dibromide	107	7.852	7.852	0.000	97	248057	10.0	10.3	
82 Chlorobenzene	112	8.303	8.303	0.000	93	877248	10.0	10.0	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	93	311258	10.0	10.2	
84 Ethylbenzene	106	8.398	8.398	0.000	99	498259	10.0	10.7	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	602651	10.0	10.5	
86 o-Xylene	106	8.884	8.884	0.000	95	618140	10.0	10.6	
87 Styrene	104	8.896	8.896	0.000	90	911344	10.0	10.2	
88 Bromoform	173	9.074	9.074	0.000	96	164149	10.0	9.61	
89 Isopropylbenzene	105	9.240	9.240	0.000	96	1500317	10.0	10.5	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	96	288621	10.0	9.09	
93 Bromobenzene	156	9.536	9.536	0.000	95	386867	10.0	9.93	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	87	97972	10.0	9.24	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	74	76606	10.0	7.57	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	406764	10.0	9.78	
97 2-Chlorotoluene	126	9.726	9.726	0.000	95	354756	10.0	9.72	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	1239314	10.0	10.0	
100 4-Chlorotoluene	126	9.821	9.821	0.000	99	384595	10.0	10.2	
102 tert-Butylbenzene	119	10.129	10.129	0.000	92	1014282	10.0	9.74	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	97	1293934	10.0	9.83	
105 sec-Butylbenzene	105	10.343	10.343	0.000	94	1396719	10.0	9.60	
106 1,3-Dichlorobenzene	146	10.449	10.449	0.000	99	742866	10.0	9.88	
107 4-Isopropyltoluene	119	10.485	10.473	0.012	98	1234292	10.0	9.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,4-Dichlorobenzene	146	10.532	10.533	0.000	94	776420	10.0	9.97	
111 n-Butylbenzene	91	10.888	10.888	0.000	98	1015678	10.0	9.59	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	97	732810	10.0	10.0	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	91	51316	10.0	8.55	
115 1,2,4-Trichlorobenzene	180	12.501	12.513	-0.012	94	413436	10.0	10.0	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	96	177457	10.0	9.16	
117 Naphthalene	128	12.750	12.750	0.000	98	864199	10.0	9.23	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	361968	10.0	9.82	
S 133 Xylenes, Total	106				0		20.0	21.1	
S 134 Trihalomethanes, Total	1				0		40.0	40.6	

**Reagents:**

VMFASPW_00067	Amount Added: 8.00	Units: uL	
VMFASAW_00060	Amount Added: 8.00	Units: uL	
VMFASGW_00069	Amount Added: 8.00	Units: uL	
VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00061	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00035	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20141203-38119.b\UXM0016.D

Injection Date: 03-Dec-2014 09:19:30

Instrument ID: A3UX16

Operator ID: 1904

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

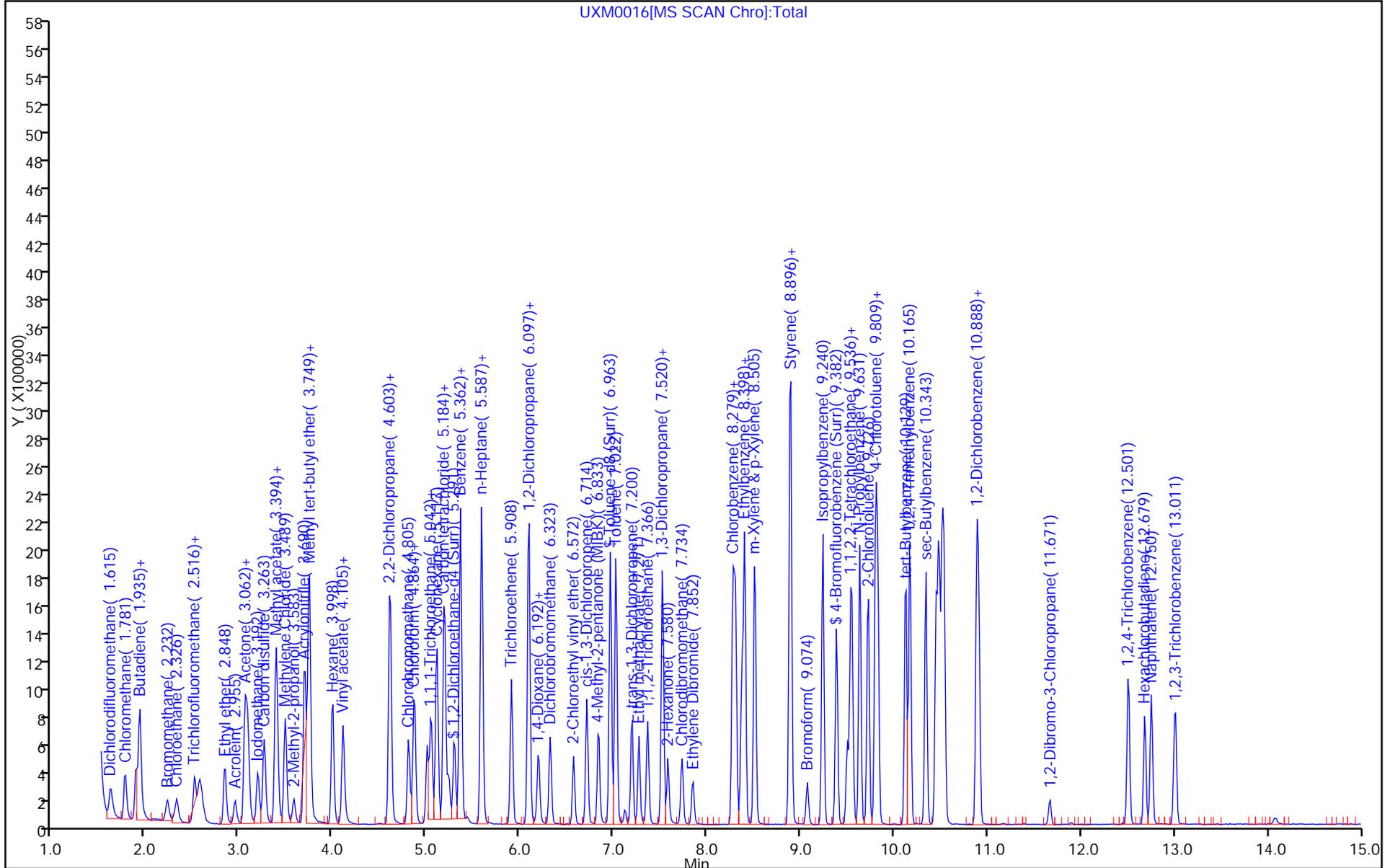
ALS Bottle#: 3

Method: 8260\_16

Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 Start Date: 11/28/2014 10:53Analysis Batch Number: 158775 End Date: 11/28/2014 16:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-158775/1		11/28/2014 10:53	1	BFB4131.D	DB-624 0.18 (mm)
STD8260 240-158775/2 IC		11/28/2014 11:29	1	UXM9937.D	DB-624 0.18 (mm)
STD8260 240-158775/3 IC		11/28/2014 11:52	1	UXM9938.D	DB-624 0.18 (mm)
STD8260 240-158775/4 ICIS		11/28/2014 12:14	1	UXM9939.D	DB-624 0.18 (mm)
STD8260 240-158775/5 IC		11/28/2014 12:36	1	UXM9940.D	DB-624 0.18 (mm)
STD8260 240-158775/6 IC		11/28/2014 12:59	1	UXM9941.D	DB-624 0.18 (mm)
STD8260 240-158775/7 IC		11/28/2014 13:21	1	UXM9942.D	DB-624 0.18 (mm)
ICV 240-158775/8		11/28/2014 13:44	1	UXM9943.D	DB-624 0.18 (mm)
STDA9 240-158775/9 IC		11/28/2014 14:23	1	UXM9944.D	DB-624 0.18 (mm)
STDA9 240-158775/10 IC		11/28/2014 14:45	1	UXM9945.D	DB-624 0.18 (mm)
STDA9 240-158775/11 IC		11/28/2014 15:08	1	UXM9946.D	DB-624 0.18 (mm)
STDA9 240-158775/12 IC		11/28/2014 15:31	1	UXM9947.D	DB-624 0.18 (mm)
STDA9 240-158775/13 IC		11/28/2014 15:53	1	UXM9948.D	DB-624 0.18 (mm)
STDA9 240-158775/14 IC		11/28/2014 16:16	1	UXM9949.D	DB-624 0.18 (mm)
ICV 240-158775/15		11/28/2014 16:38	1	UXM9950.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 Start Date: 12/03/2014 08:01

Analysis Batch Number: 159290 End Date: 12/03/2014 12:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-159290/1		12/03/2014 08:01	1	BFB4135.D	DB-624 0.18 (mm)
CCVIS 240-159290/2		12/03/2014 08:34	1	UXM0014.D	DB-624 0.18 (mm)
CCV 240-159290/3		12/03/2014 08:57	1	UXM0015.D	DB-624 0.18 (mm)
LCS 240-159290/4		12/03/2014 09:19	1	UXM0016.D	DB-624 0.18 (mm)
MB 240-159290/6		12/03/2014 10:04	1	UXM0018.D	DB-624 0.18 (mm)
ZZZZZ		12/03/2014 10:27	1		DB-624 0.18 (mm)
ZZZZZ		12/03/2014 10:49	1		DB-624 0.18 (mm)
ZZZZZ		12/03/2014 11:11	1		DB-624 0.18 (mm)
ZZZZZ		12/03/2014 11:34	1		DB-624 0.18 (mm)
240-44867-2	TB01/112514	12/03/2014 11:56	1	UXM0023.D	DB-624 0.18 (mm)
240-44867-1 RA	EFFLUENT/112514 RA	12/03/2014 12:58	1	UXM0025.D	DB-624 0.18 (mm)

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 Start Date: 11/28/2014 08:38Analysis Batch Number: 158763 End Date: 11/28/2014 12:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-158763/1		11/28/2014 08:38	1	BFB389.D	DB-624 0.18 (mm)
STD8260 240-158763/2 IC		11/28/2014 09:44	1	UXR7657.D	DB-624 0.18 (mm)
STD8260 240-158763/3 IC		11/28/2014 10:07	1	UXR7658.D	DB-624 0.18 (mm)
STD8260 240-158763/4 ICIS		11/28/2014 10:29	1	UXR7659.D	DB-624 0.18 (mm)
STD8260 240-158763/5 IC		11/28/2014 10:52	1	UXR7660.D	DB-624 0.18 (mm)
STD8260 240-158763/6 IC		11/28/2014 11:14	1	UXR7661.D	DB-624 0.18 (mm)
STD8260 240-158763/7 IC		11/28/2014 11:36	1	UXR7662.D	DB-624 0.18 (mm)
ICV 240-158763/8		11/28/2014 12:15	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 Start Date: 11/28/2014 17:19

Analysis Batch Number: 158831 End Date: 11/28/2014 20:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-158831/1		11/28/2014 17:19	1	BFB390.D	DB-624 0.18 (mm)
STDA9 240-158831/2 IC		11/28/2014 18:03	1	UXR7675.D	DB-624 0.18 (mm)
STDA9 240-158831/3 IC		11/28/2014 18:26	1	UXR7676.D	DB-624 0.18 (mm)
STDA9 240-158831/4 IC		11/28/2014 18:48	1	UXR7677.D	DB-624 0.18 (mm)
STDA9 240-158831/5 IC		11/28/2014 19:11	1	UXR7678.D	DB-624 0.18 (mm)
STDA9 240-158831/6 IC		11/28/2014 19:33	1	UXR7679.D	DB-624 0.18 (mm)
STDA9 240-158831/7 IC		11/28/2014 19:56	1	UXR7680.D	DB-624 0.18 (mm)
ICV 240-158831/8		11/28/2014 20:18	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-44867-1

SDG No.: \_\_\_\_\_

Instrument ID: A3UX17 Start Date: 12/02/2014 09:59

Analysis Batch Number: 159122 End Date: 12/02/2014 20:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-159122/1		12/02/2014 09:59	1		DB-624 0.18 (mm)
CCVIS 240-159122/2		12/02/2014 10:31	1		DB-624 0.18 (mm)
CCV 240-159122/3		12/02/2014 10:54	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 11:16	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 12:02	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 12:25	1.43		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 12:47	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 13:10	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 13:33	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 13:55	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 14:18	40		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 14:41	40		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 15:03	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 15:26	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 16:11	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 16:33	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 16:55	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 17:18	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 17:40	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 18:02	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 18:25	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 18:47	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 19:09	1		DB-624 0.18 (mm)
ZZZZZ		12/02/2014 19:32	1		DB-624 0.18 (mm)
240-44867-1	EFFLUENT/112514	12/02/2014 19:55	1	UXR7735.D	DB-624 0.18 (mm)
ZZZZZ		12/02/2014 20:40	83.33		DB-624 0.18 (mm)

# Shipping and Receiving Documents

**CHAIN OF CUSTODY  
AND  
RECEIVING DOCUMENTS**



240-44867 Chain of Custody



TestAmerica Canton Sample Receipt Form/Narrative Login # : 44967  
 Canton Facility \_\_\_\_\_  
 Client TRC Environmental Name \_\_\_\_\_ Cooler unpacked by: Jakob Juergens  
 Cooler Received on 11-26-14 Opened on 11-26-14  
 FedEx:  1<sup>st</sup> Grd  Exp  UPS  FAS  Stetson Client Drop Off  TestAmerica Courier  Other \_\_\_\_\_  
 Receipt After-hours: Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_  
 TestAmerica Cooler # \_\_\_\_\_ Foam Box  Client Cooler  Box \_\_\_\_\_ Other \_\_\_\_\_  
 Packing material used:  Bubble Wrap  Foam  Plastic Bag  None  Other \_\_\_\_\_  
 COOLANT:  Wet Ice  Blue Ice  Dry Ice  Water  None \_\_\_\_\_  
 1. Cooler temperature upon receipt  
 IR GUN# A (CF +4.0 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN# 4 (CF +1.2 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  See Multiple Cooler Form  
 IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. 7.8 °C Corrected Cooler Temp. 4.2 °C  
 IR GUN# 8 (CF +0.7 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1  Yes  No  
 -Were custody seals on the outside of the cooler(s) signed & dated?  Yes  No  NA  
 -Were custody seals on the bottle(s)?  Yes  No  
 3. Shippers' packing slip attached to the cooler(s)?  Yes  No  
 4. Did custody papers accompany the sample(s)?  Yes  No  
 5. Were the custody papers relinquished & signed in the appropriate place?  Yes  No  
 6. Did all bottles arrive in good condition (Unbroken)?  Yes  No  
 7. Could all bottle labels be reconciled with the COC?  Yes  No  
 8. Were correct bottle(s) used for the test(s) indicated?  Yes  No  
 9. Sufficient quantity received to perform indicated analyses?  Yes  No  
 10. Were sample(s) at the correct pH upon receipt?  Yes  No  NA pH Strip Lot# HC425511  
 11. Were VOAs on the COC?  Yes  No  
 12. Were air bubbles >6 mm in any VOA vials?  Yes  No  NA  
 13. Was a trip blank present in the cooler(s)?  Yes  No  
 Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
 Concerning \_\_\_\_\_

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: [Signature]  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

15. SAMPLE CONDITION  
 Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
 Sample(s) \_\_\_\_\_ were received in a broken container.  
 Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION  
 Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_